

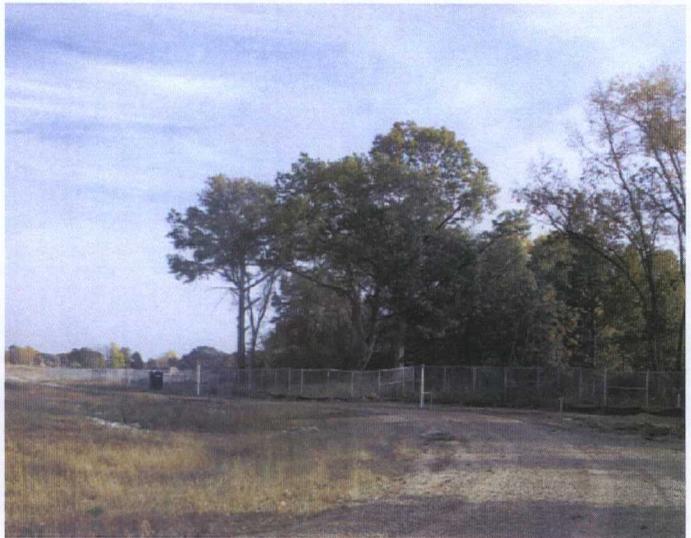


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**CONESTOGA-ROVERS
& ASSOCIATES**

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Report

CONSTRUCTION REPORT – PASSIVE VENTILATION TRENCH ADDITION

Prepared for: Himco Site Trust

Conestoga-Rovers & Associates

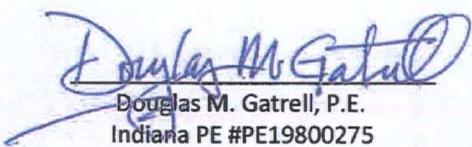
14496 Sheldon Road, Suite 200
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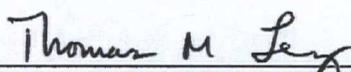


Partners in
Sustainability

To the best of my knowledge, I certify that the Passive Ventilation Trench Addition has been completed in full satisfaction of the requirements of the Statement of Work.



Douglas M. Gatrell, P.E.
Indiana PE #PE19800275



Thomas M. Lenz

Thomas M. Lenz, Performing Settling
Defendants Alternate Project Coordinator

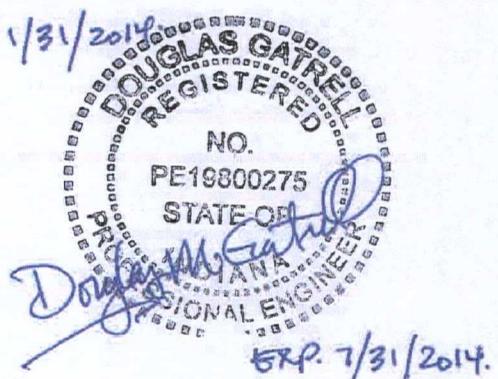


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- Appendix D Waste Manifest**

List of Acronyms

AMP	Air Monitoring Program
bgs	Below Ground Surface
CD	Consent Decree
CDA	Construction Debris Area
Closure Criteria	IDEM Residential and Industrial Default Closure Levels
CRA	Conestoga-Rovers & Associates
CRA, 2008	Remedial Design Work Plan
CRA, 2010	Final Design Report
DCB	Dichlorobenzene
ft AMSL	feet Above Mean Sea Level
HASP	Health and Safety Plan
IDEM	Indiana Department of Environmental Management
LFG	Landfill Gas
MIMP	Methane Investigation and Monitoring Plan
MRAP	Methane Remedial Action Plan
NPL	National Priority List
O&M Plan	Operation and Maintenance Plan
PAHs	Polynuclear Aromatic Hydrocarbons
PCE	Tetrachloroethene
PVT	Passive Ventilation Trench
PSDs	Performing Settling Defendants
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
RA	Remedial Action
RAWP	Remedial Action Work Plan
RC	Remedial Contractor
RD/RA	Remedial Design/Remedial Action
RD Work Plan	Remedial Design Work Plan
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
ROD-A	Amended Record of Decision
SEC Donohue, 1992	Remedial Investigation and Feasibility Study

List of Acronyms

SGP	Soil Gas Probe
Site	Himco Site
SOW	Statement of Work
SSI	Supplemental Site Investigation
SSI/SCR	Supplemental Site Investigation/Site Characterization Report
SVOC	Semi Volatile Organic Compound
SWPPP	Stormwater Pollution Prevention Plan
TAL	Target analyte list
TCE	Trichloroethene
TMB	Trimethylbenzene
USACE	United States Army Corps of Engineers
USACE, 1996	Final Design Analysis Report
USEPA	United States Environmental Protection Agency
USEPA, 2002	USEPA's Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils
USCS	Unified Soil Classification System
VAS	Vertical Aquifer Sampling
VOC	Volatile Organic Compound

Section 1.0 Introduction

The Performing Settling Defendants (PSDs), collectively known as the Himco Site Trust, retained Conestoga-Rovers & Associates (CRA) to prepare this Passive Ventilation Trench (PVT) Addition Construction Completion Report (Report) for the Himco Site (Site) in Elkhart, Indiana. CRA prepared the Report in accordance with Section XIV, Paragraph 50 of the 2007 Consent Decree (CD) for Remedial Design and Remedial Action (RD/RA). This Report also satisfies Section IV, Item 15 and Item 16, which require both a construction completion report and a completion of remedial action report.

1.1 General

The Site is a closed landfill located at the intersection of County Road 10 and John Weaver Parkway (former Nappanee Street Extension) in Elkhart County, Indiana. The Site covers approximately 100 acres in the Northeast $\frac{1}{4}$ of Section 36, Township 38 North, Range 4 East in Cleveland Township, of which approximately 65 acres is the landfill proper. The landfill accepted waste including household refuse, construction rubble, medical waste, and calcium sulfate between 1960 and 1976. The landfill was closed and covered with a 1-foot layer of sand overlying a layer of calcium sulfate in 1976.

The Site location is shown on Figure 1.1. A Site plan is provided on Figure 1.2.

According to the Remedial Investigation and Feasibility Study (RI/FS) (SEC Donohue, 1992), the Site consists of two major areas: the calcium sulfate-covered landfill and the 4-acre construction debris area (CDA). The CDA was subdivided into seven residential properties and one commercial property parcel. The commercial property is not currently occupied or being used for any purpose. The CDA and its boundaries were defined primarily from 13 test trenches excavated in 1991 during the second phase of field studies for the Remedial Investigation (RI).

From 1974 to 1992, a number of environmental investigations were completed at the Site including a RI/FS in 1989-1992 by SEC Donohue. The United States Environmental Protection Agency (USEPA) added the Site to the National Priorities List (NPL) on February 21, 1990 before implementation of the RI/FS began. Upon completion of the RI/FS, the USEPA issued a Record of Decision (ROD), executed on September 30, 1993, which identified the selected RA for the Site. Subsequent to the ROD, additional environmental investigations were completed. An Amended ROD (ROD-A) was issued on September 15, 2004. The ROD-A defined the remedial actions (RA) for the landfill cover, CDA soil removal, groundwater, and air components of the RD/RA for the Site. The lead Agency for the Site is USEPA Region 5. Indiana Department of Environmental Management (IDEM) is the support Agency.

Pre-design investigations commenced at the Site in 2008. Groundwater monitoring commenced in 2008 and is ongoing. In accordance with the CD, remedial design was completed in three stages (60%, 90%, and 100%). USEPA issued approval of the Pre-Design Investigation/100% Final Design Report (CRA, 2010) (hereafter referred to as the "Final Design Report") and notice to proceed with the Remedial Action Work Plan (RAWP) on July 21, 2010. The RD/RA was completed in 2010 through 2012, pursuant to the CD, which became effective on November 27, 2007.

During the Operations and Maintenance Plan (O&M Plan) monitoring event in September 2012, methane was detected at elevated concentrations above the action level (5 percent by volume) in soil gas probes (SGPs) 107, 110, and 114, which are located along the south boundaries of the Site. CRA monitored the SPGs daily and then weekly from September 21, 2012 to October 19, 2012. A Methane Investigation and Monitoring Plan (MIMP) was developed by CRA and approved by the USEPA on November 6, 2012. The MIMP involved the installation of seven new SGPs (SGPs 115, 116, 117S/D, 118, and 119S/D) to delineate the source of the methane, weekly monitoring over four weeks, an evaluation of the collected data, and development of recommended next action steps. The United States Army Corps of Engineers (USACE) and IDEM were on Site to observe the SGP installations in December 2012. Figure 1.2 includes the locations of the additional SGPs.

In accordance with the MIMP, CRA monitored the new SGPs and SGPs 107, 108, 109, 110, 114, 13, 14, 15, and 27S/D once per week between December 28, 2012 and January 17, 2013. The monitoring at these SGPs included measuring soil gas pressure and soil gas quality (methane, carbon dioxide, oxygen, and balance gas concentrations on a percent-by-volume basis) using a Dwyer digital manometer and a GEM 2000 gas meter, respectively.

Methane was detected above the action level (5 percent) in SGPs 107, 108, 109, 114, 115, 116, and 118 at least once, and hydrogen sulfide was detected in concentrations greater than the action level (4.4 percent) at SGP 114 for two readings during the MIMP monitoring event. A Methane Remedial Action Plan (MRAP) was proposed by CRA on June 28, 2013, and revised by CRA and approved by the USEPA on August 13, 2013. The MRAP consisted of the installation of two additional PVTs; one located between SGPs 107, 108, and 109, and SGPs 14, 15, and 16 on the south boundary of the Site, and one between SGP 114 and 119S/D on the southwest boundary of the Site.

1.2 Report Organization

This Report is organized as follows:

- Section 2.0 provides background information on the Site

- Section 3.0 describes the problem statement and a description of the construction activities
- Section 4.0 describes Site preparation activities completed at the onset of remedial construction
- Section 5.0 describes surface water management
- Section 6.0 describes construction of the PVT
- Section 7.0 describes the meeting and inspections completed during the remedial construction
- Section 8.0 describes the operation and maintenance activities planned for the remedial action

The Record Drawings for the MRAP construction are provided with this report.

Section 2.0 Site Background and Setting

2.1 Site Description

The Site is a closed landfill located at the intersection of County Road 10 and John Weaver Parkway in Cleveland Township, Elkhart County, Indiana. According to the ROD-A, the Site accepted waste including household refuse, construction rubble, medical waste, and calcium sulfate between 1960 and 1976. Prior to the RA, the topography of the landfill was varied with two high points located on the northwest and east sides of the Site at an approximate elevation of 772 feet above mean sea level (ft AMSL). The perimeter elevation of the landfill is approximately 761 ft AMSL. The landfill was closed and covered with a 1-foot layer of sand overlying a layer of calcium sulfate in 1976. The CDA bordering the southern perimeter of the landfill consisted of construction rubble mixed with non-native soil. Numerous small piles of rubble concrete, asphalt, and metal debris were scattered throughout the area. The calcium sulfate layer found at the landfill was not present in the CDA.

According to Supplemental Site Investigations/Site Characterization Report (SSI/SCR) (USEPA, 2002), the landfill and surrounding areas were initially marsh and grassland. No liner, leachate collection, or gas recovery system was constructed as part of the landfill. Refuse was placed at ground surface across the Site, with exception of trench filling in the eastern area of the Site. In this area, the Site operator excavated five trenches 10 to 15 feet (ft) deep, the width of a truck and 30 ft long. Paper refuse was reportedly dumped in the trenches and burned. The exact locations of these trenches within the landfill are unknown. Approximately two thirds of the waste in the landfill is calcium sulfate (SEC Donohue, 1992). Other wastes accepted at the landfill included demolition/construction debris, household refuse, and industrial and hospital wastes. The landfill had no specifically-defined borrow source, but obtained sandy soil for daily cover from an abandoned gravel pit to the north, ponded areas to the west, and essentially anywhere around the perimeter of the Site where sand was available.

The abandoned gravel pit north of the Site, commonly referred to as the Quarry Pond, is filled with water. The two other smaller ponds on the west side of the Site are commonly referred to as the L Pond and the Little Pond. The typical surface water elevation ranged from 754.5 to 755.3 ft AMSL in November 2008.

The waste on Site is in contact with the water table. The RI/FS states that residents near the Site reported complaints of color, taste, and odor problems in shallow water supply wells as early as 1974. Deeper potable water supply wells were installed for some residents in the 1970s. The USEPA Emergency and Response Branch sampled these wells in late April 1990. Elevated concentrations of sodium in samples from these deeper water supply wells eventually led to the USEPA's requirement to supply municipal water to the residents south of the Site in 1990.

2.2 Summary of Investigations

On behalf of the USEPA, SEC Donohue completed the RI in 1991-1992 to characterize the contamination in soil samples collected from the landfill cover and areas next to the cover. SEC Donohue also sampled soil in the CDA during the 1998 SSI to characterize the nature of soil contamination.

The first attempt at defining the limit of waste occurred in 1992 using a combination of geophysical surveys, test pit and soil boring observations, and examination of aerial photos (SEC Donohue, 1992). The landfill limit of waste was further defined in 1996 using information contained in the Final Design Analysis Report (United States Army Corps of Engineers [USACE], 1996).

The USACE completed two supplemental soil gas investigations that were performed between 1998 and 1999. The 1998 soil gas investigation concentrated primarily on the area south of the landfill to County Road 10, with limited investigations east of the landfill towards John Weaver Parkway.

In order to further delineate and understand the extent of conditions on-Site, CRA completed a pre-design investigation in accordance with the RD Work Plan (CRA, 2008). The pre-design investigation was designed to delineate the limits of the landfill and characterize on-Site cover soil, where present, for thickness, nutrients, vegetation, and grain size. CRA also sampled soil in the CDA, landfill gas (LFG)/soil gas, and groundwater to supplement existing information and aid in the development of an appropriate remedy. The remedy addresses the CDA, the main landfill, and will prevent off-Site migration of LFG/soil gas present at the Site.

The pre-design investigation consisted of advancing 246 landfill cover soil borings, excavating 17 test trenches and five test pits, completing vertical aquifer sampling (VAS) at eight locations, installing 29 soil

gas probes, collecting 74 soil samples (including quality assurance/quality control [QA/QC] samples), collecting 62 groundwater samples from monitoring wells, collecting 121 samples from VAS boreholes, and collecting 61 soil gas samples (including QA/QC samples).

The landfill limit delineation determined that the actual limit of waste in the west, in the northeast sides of the landfill and the southeast part of the CDA varied significantly from the 1996 landfill limit.

The 2009 landfill limit of waste line, as defined by CRA, was produced using historic data, the results of the test trenches, and other data collected during the pre-design investigation.

The soil cover investigation determined the following:

- The thickness of soil cover at the investigated soil boring locations varied from 0 to 2 ft, the average thickness of cover at the boring locations was approximately 0.8 ft, and approximately one third of the boring locations at the Site had 0 to 0.4 ft of existing soil cover
- The Unified Soil Classification System (USCS) soil classifications for samples collected from the landfill soil cover were a poorly graded sand, gravelly sand, or silty sand
- The results of the analysis were not conclusive as to the ability of the landfill soil cover to grow vegetation based on criteria provided from A & L Great Lakes Laboratories, Inc., and the amount of coverable cover soil was too small to make it cost effective for reuse
- Of the 21 soil sample locations where samples contained volatile organic compounds (VOC) detections, none of the sample concentrations were greater than the IDEM Residential and Industrial Default Closure Levels (closure criteria)

The December 2008 soil samples collected within the CDA contained several polynuclear aromatic hydrocarbons (PAHs) in both surface and subsurface soil samples, and two semi-volatile organic compounds (SVOCs) (bis[2-Ethylhexyl]phthalate and dibenzofuran). Eighteen of the 23 target analyte list (TAL) metals were detected at least once. Arsenic was detected at concentrations greater than the closure criteria in soil samples from the CDA. Lead was detected at concentrations less than the closure criteria in soil samples collected from the CDA. The December 2008 soil samples illustrated that criteria exceedances were detected in samples from two locations adjacent to the landfill and on residential properties. Soil samples collected at one location in the southern portion of the landfill also contained parameter concentrations at concentrations exceeding the closure criteria.

Concentrations of seven VOCs (1,2,4-trimethylbenzene [TMB], 1,3,5-TMB, 1,4-DCB, benzene, perchloroethylene [PCE], trichloroethylene [TCE] and vinyl chloride) in LFG/soil gas samples collected at two locations on the southeast corner of the landfill exceeded the IDEM Indoor Air Criteria.

The September and October 2012 soil gas monitoring per the Final O&M Plan (CRA 2012), detected methane at elevated concentrations above the action level (5 percent by volume) in SGPs 107, 110, and 114. A MIMP was developed by CRA which involved the installation of seven new SGPs (SGPs 115, 116, 117S/D, 118, and 119S/D) to delineate the source of the methane, weekly monitoring over 4 weeks, an evaluation of the collected data, and development of recommended next action steps.

CRA monitored the new SGPs and SGPs 107, 110, 114, 13, 14, 15, and 27S/D once per week between December 28, 2012 and January 17, 2013. Methane was detected above the action level in SGPs 107, 108, 109, 114, 115, 116, and 118 at least once, and hydrogen sulfide was detected in concentrations greater than the action level (4.4 percent) in SGP 114 for two readings during the MIMP monitoring event.

2.3 Site Setting

The Site is bordered to the north by the Quarry Pond and agricultural land; to the east by John Weaver Parkway and beyond by residential properties; to the south by residential properties and County Road 10; and to the west by undeveloped land and agricultural properties.

The Site is currently fenced. Locked access gates are present at the southeast corner of the Site and near the southwestern corner of the Site. A man gate is located on the west side of the Site.

Section 3.0 Overall Strategy and Design

3.1 Problem

Methane and hydrogen sulfide were detected at elevated concentrations above the action levels (5 and 4.4 percent by volume, respectfully) in SGPs 107, 108, 109, 114, 115, 116, and 118 between September 2013 and January 2013. Methane can pose a human health risk due to the explosive properties of the gas in the right concentration limits, and hydrogen sulfide is denser than air, which can lead to the expelling of breathable air from low lying structures such as a basement or sewer resulting in an asphyxiation hazard.

3.2 Remedy

A MRAP was developed by CRA which proposed the installation of two new PVTs between SGPs which had detections of methane and hydrogen sulfide above action levels. The PSDs retained the construction division of CRA to construct the remedy and act as a Remedial Contractor (RC). CRA commenced remedial construction per the MRAP in October 2013 and completed construction in November 2013. A photographic log of the MRAP construction activities is provided as Appendix A.

Section 4.0 Site Preparation

4.1 Health and Safety

CRA implemented the Health and Safety Plan (HASP) during PVT installation activities. The HASP was amended, as appropriate, prior to the remedial construction. The HASP provided specific guidelines and procedures for the protection of personnel performing PVT installation activities.

The HASP was developed in accordance with applicable standards and defined the following:

- Levels of protection
- Safe work practices and safe guards
- Medical surveillance
- Personal and environmental air monitoring
- Personal protective equipment
- Personal hygiene
- Decontamination for personal and equipment
- Site work zones
- Contaminant control
- Contingency and emergency planning
- Logs, reports and record keeping

CRA provided a Site-specific HASP orientation to Site workers on October 15, 2013. CRA maintained daily sign-in sheets and health and safety records on Site during construction. CRA implemented the Air Monitoring Program (AMP) in accordance with the HASP when excavation commenced on Site.

Section 5.0 Surface Water Management and Permits

CRA prepared a Stormwater Pollution Prevention Plan (SWPPP) that detailed specific sediment and erosion control measures implemented at the Site during construction. The Elkhart County Soil and Water District issued a SWPPP permit to the Site on September 27, 2013; a copy of the permit is included in Appendix B.

Section 6.0 Passive Ventilation Trench

6.1 Passive Ventilation Trench Construction

CRA installed two PVTs along the south and west boundaries of the landfill, as shown on Figures 6.1 and 6.2 respectively. The alignment of the two new PVTs was based on the MRAP, which proposed installing the southern PVT between SGPs 107, 108, and 109, and SGPs 14, 15, and 16, and the western PVT between SGPs 114 and 119S/D.

The PVT construction details are shown on Figure 6.3. Consistent with the Final Design Report, CRA constructed the PVTs with approximately 844 linear ft of slotted 4-inch Schedule 40 polyvinyl chloride (PVC) piping within a trench filled with a porous gravel column. The trench is approximately 3 ft wide and the slotted pipe was placed approximately 2 ft above the water table (approximately 6-8 ft bgs at the time of installation in October 2013). This depth accounts for seasonal fluctuations in the groundwater elevations at the Site. CRA installed a geotextile separator over the gravel, and covered the geotextile with 6 inches of rooting zone soil and 6 inches of topsoil. The width of the porous gravel trench is such that there is at least one diameter width (4 inches) of space on each side of the lateral pipe to provide adequate support for the lateral piping. Copies of QA/QC documents for imported materials used during PVT installation are included in Appendix C.

6.2 Contaminated Waste

During excavation of the southern PVT, solid waste was encountered between 8-10 feet bgs at the western limit of the trench in the proximity of SGP-109. In accordance with construction sections 02120 (off-Site Transportation and Disposal) and 02225 (Waste Excavation and Consolidation) of the Final Design Report CRA, took the proper measures to isolate the waste from clean excavated soil. Waste encountered in the PVT excavation was stockpiled on visqueen polyethylene plastic sheeting near the southern PVT. Stockpiled soils were covered with visqueen sheeting to prevent stormwater intrusion and runoff. CRA collected a waste characterization sample, following staging of the soil, for waste disposal purposes. Analytical data indicated the waste was non-hazardous and a profile was completed for disposal in a Subtitle D landfill. After receiving approval of the waste profile, the stockpiled waste

was loaded into roll-off containers which were transported off-site by Republic Services for disposal at the County Line Landfill located in Argos, IN. The waste manifest can be found in Appendix D.

6.3 Stockpiled Soil and Seeding

The PVT addition SOW included placing excavated soil on low lying areas of the landfill cap. During installation, CRA determined the condition of the cap was not suitable to support heavy equipment due to recent rain events. As a result and with the approval of the PSDs, excavated soil was consolidated into stockpiles near the PVT installations. CRA will mobilize to the Site, in Spring 2014, and relocate the stockpiled soil once it is determined that the landfill cap can support heavy equipment. Grass seeding was not completed in the disturbed areas because of the stockpiled soils. Upon removal of soil stockpiles in the Spring 2014, CRA will seed disturbed areas in accordance with the project specifications.

Section 7.0 Meetings and Inspections

7.1 Pre-Final Construction Inspection

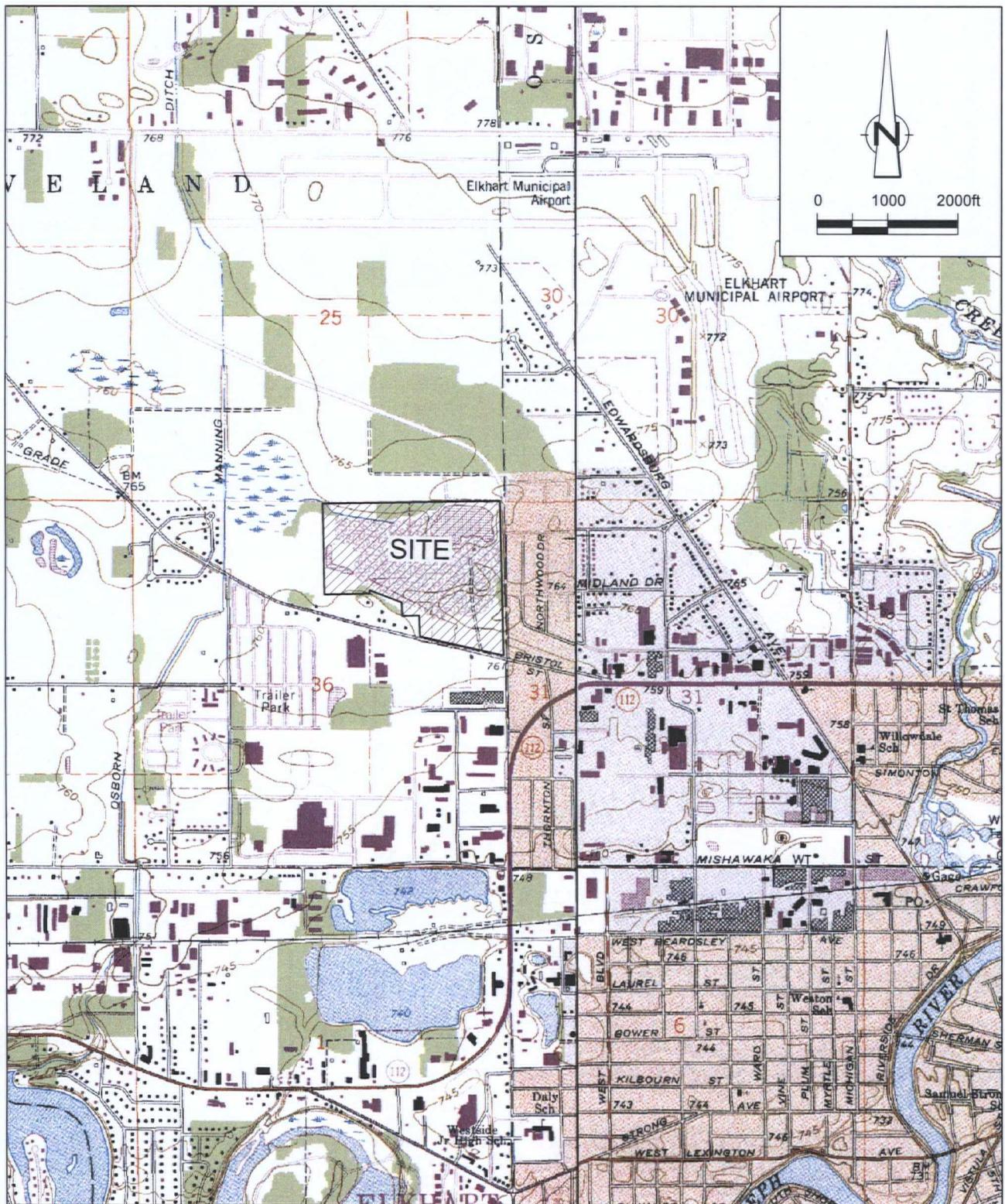
A Pre-Final Construction Inspection was conducted by CRA at the Site on October 29, 2013. CRA completed a walk-through inspection of the Site and reviewed the components of the constructed MRAP. A list of outstanding items and estimated timetable for completion is included below:

- Repair damaged fence section along northern property boundary
 - Fence repair completed in November 13, 2013
- Remove stockpiled waste from the Site
 - Stockpiled waste removed on November 13, 2013
- Relocated clean stockpiled soil from PVT excavation to landfill cap
 - Estimated to be completed in Spring 2014
- Replace seeding in areas disturbed during PVT installation
 - Estimated to be completed in Spring 2014

Section 8.0 Operation and Maintenance

The Final O&M Plan will be modified to include the additional PVTs.

In accordance with the O&M Plan, the PSDs will commence six monthly O&M inspections of the PVT. The first inspection of the PVTs was completed on November 27, 2013.



SOURCE: USGS QUADRANGLE MAPS;
ELKHART AND OSCEOLA, INDIANA

figure 1.1

**SITE LOCATION MAP
HIMCO SITE
*Elkhart, Indiana***



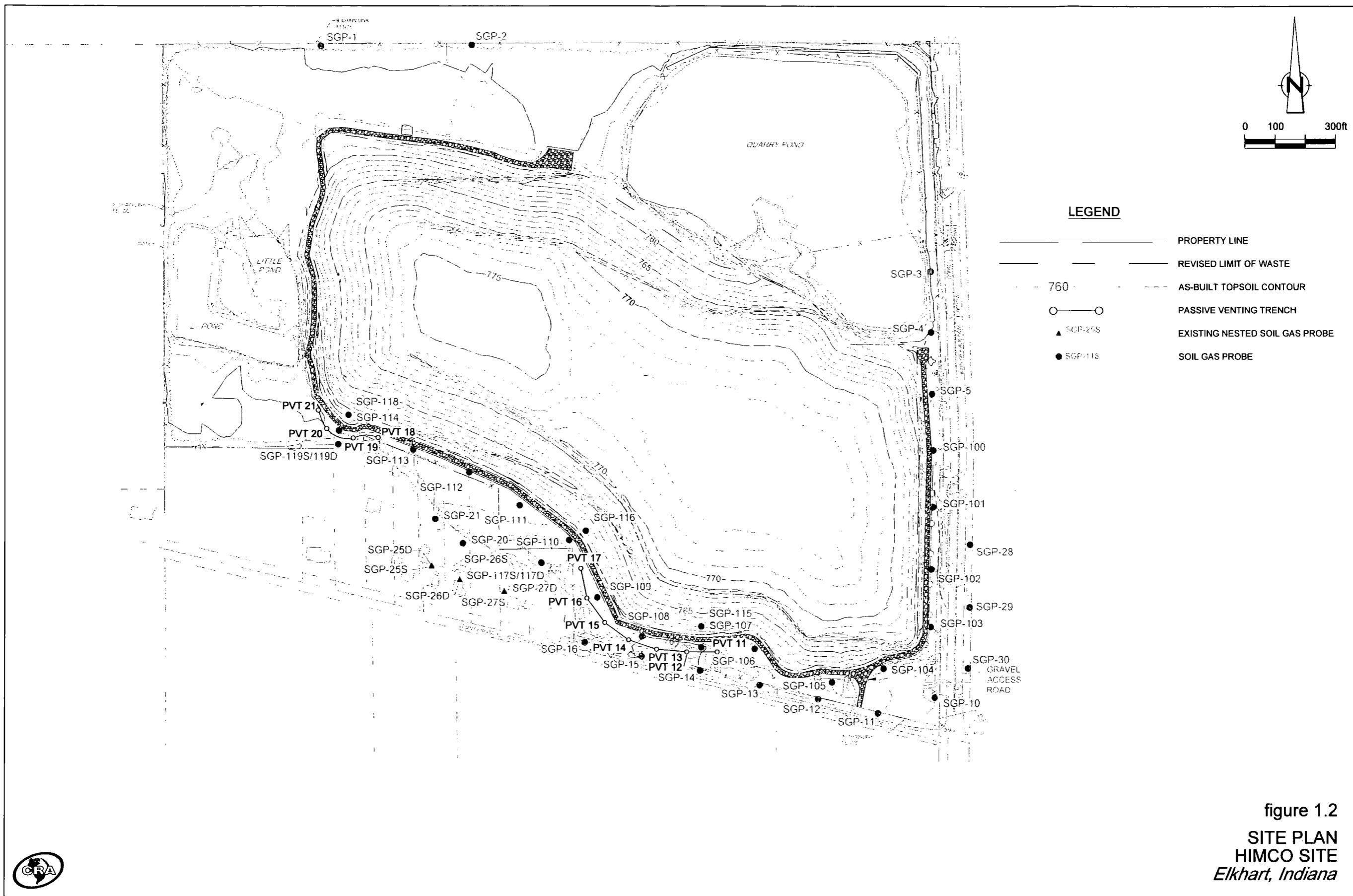


figure 1.2
SITE PLAN
HIMCO SITE
Elkhart, Indiana



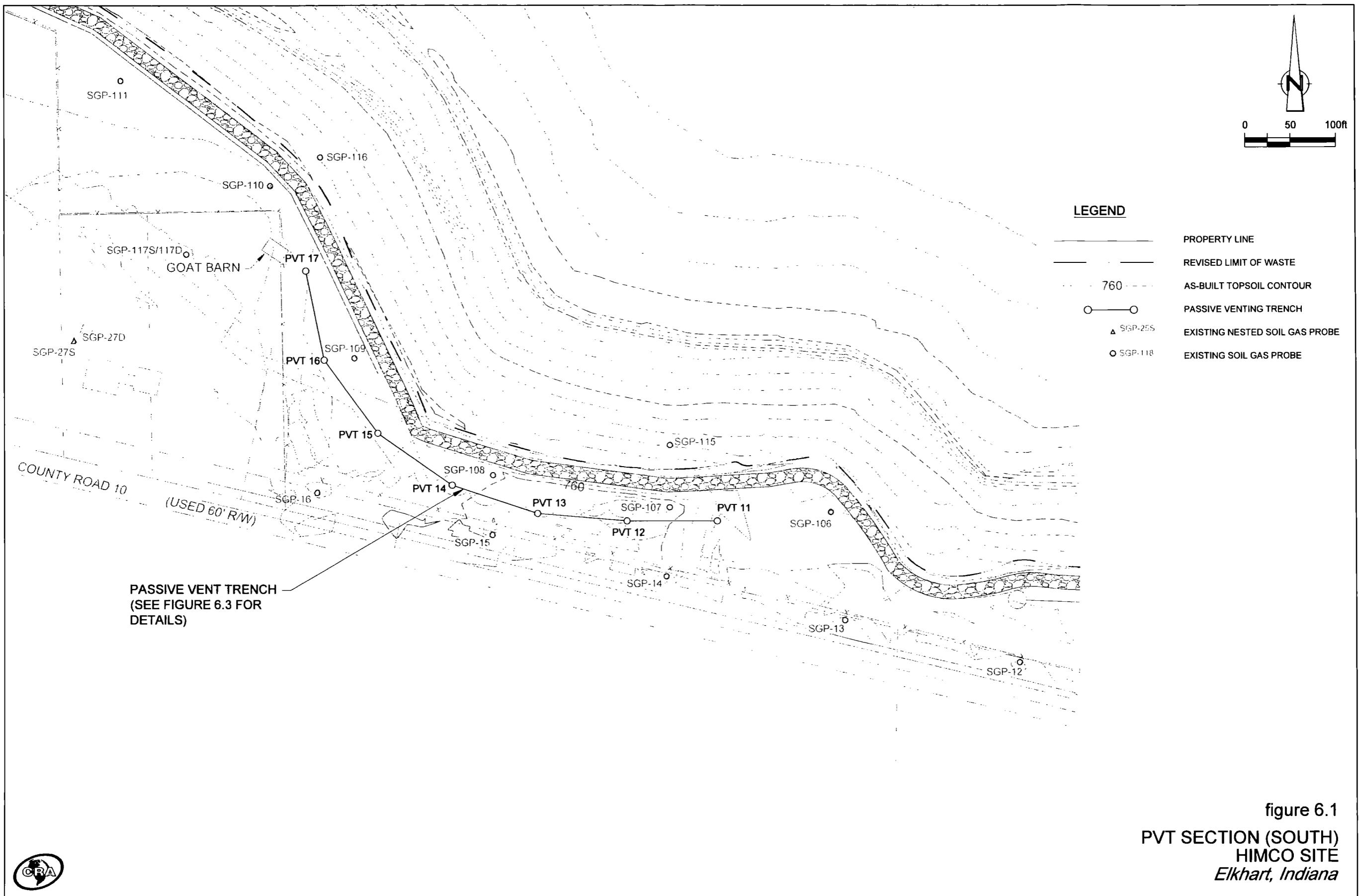


figure 6.1



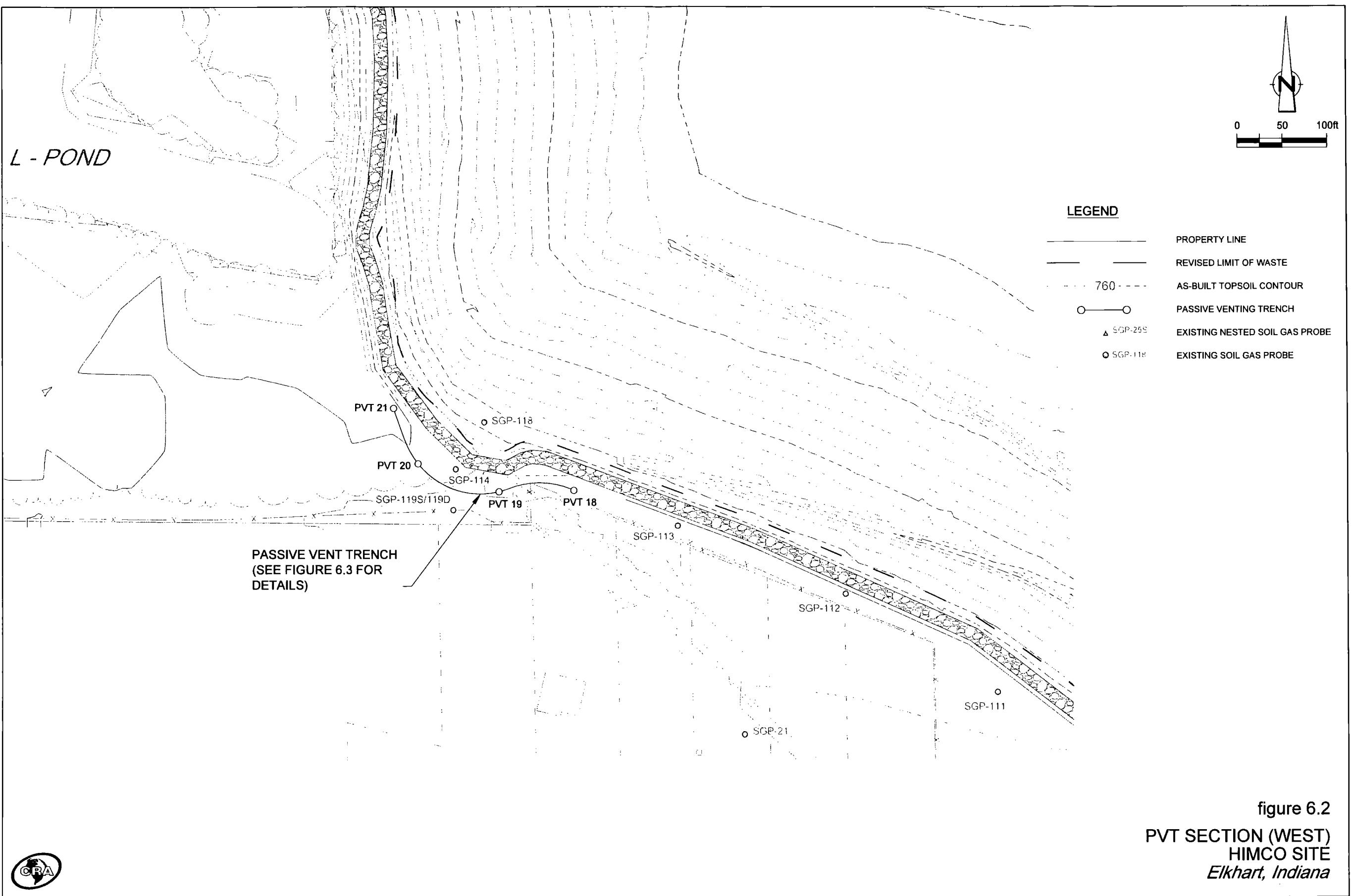


figure 6.2
PVT SECTION (WEST)
HIMCO SITE
Elkhart, Indiana



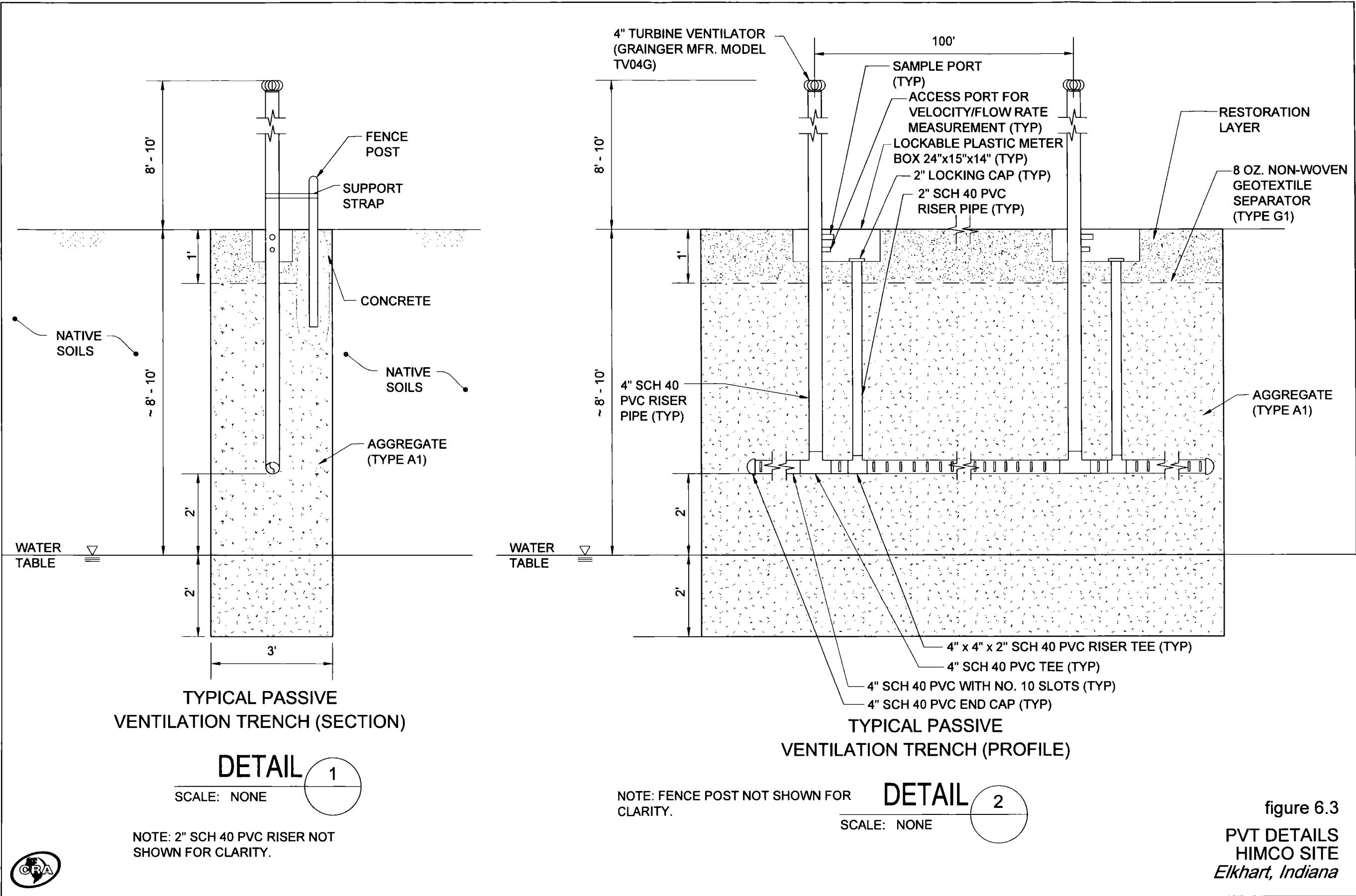


figure 6.3

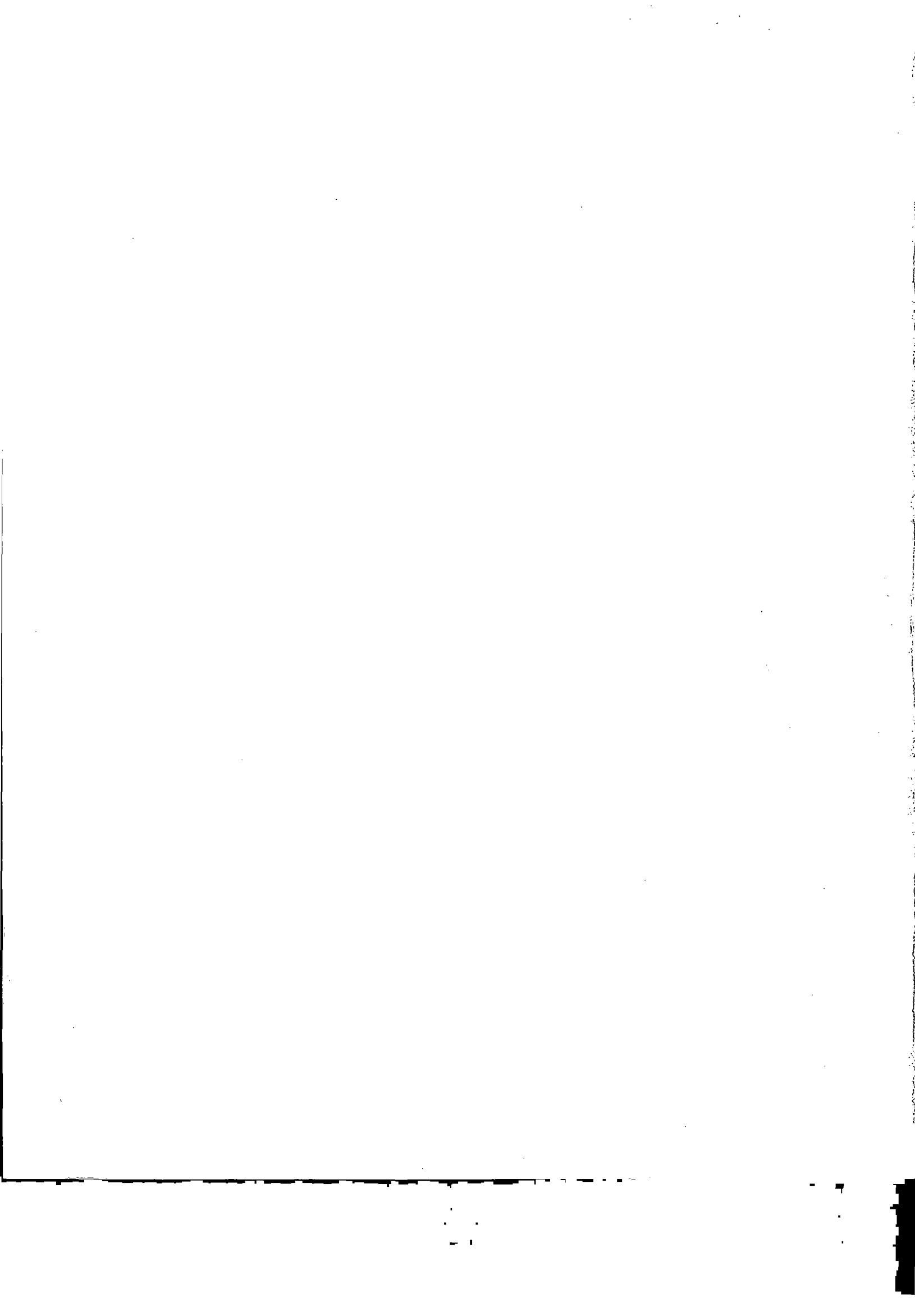
PVT DETAILS
HIMCO SITE
Elkhart, Indiana

TABLE 7.1

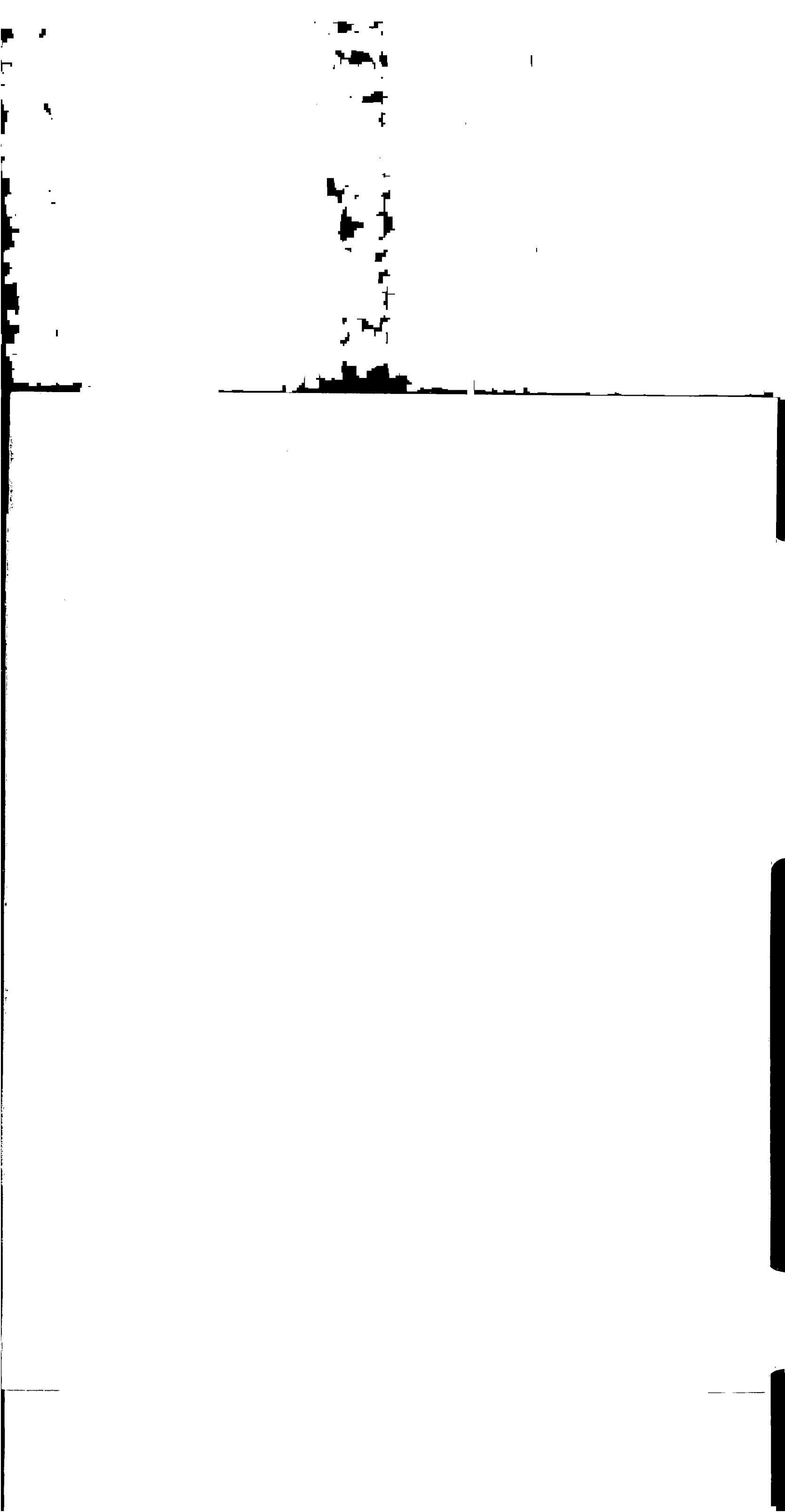
Page 1 of 1

SEED MIX SUPPLEMENT
HIMCO SITE
ELKHART, INDIANA

Scientific Name	Common Name	Amount (pounds/acre)
<i>Andropogon gerardii</i>	Big bluestem grass	16
<i>Asclepias syriaca</i>	Common milkweed	2
<i>Aster laevis</i>	Smooth blue aster	1
<i>Aster novae-angliae</i>	New England aster	2
<i>Bouteloua curtipendula</i>	Side-oat grama	18
<i>Coreopsis lanceolata</i>	Sand coreopsis	8
<i>Echinacea purpurea</i>	Broad-leaved purple coneflower	8
<i>Elymus canadensis</i>	Canada wild rye	24
<i>Monarda fistulosa</i>	Wild bergamot	1
<i>Panicum virgatum</i>	Switch grass	4
<i>Penstemon digitalis</i>	Foxglove beard tongue	2
<i>Ratibida pinnata</i>	Yellow coneflower	2
<i>Rudbeckia hirta</i>	Black-eyed susan	8
<i>Schizachyrium scoparium</i> (<i>Andropogon</i>)	Little bluestem	32
<i>Sorghastrum nutans</i>	Indian grass	16







Appendix A

Photographic Log of PVT Addition Construction





Description: Silt fence installed along southern property boundary

Date: 10/15/2013

Photographer: Dave Canfield



Description: Silt fence installed along southwestern property boundary

Date: 10/15/2013

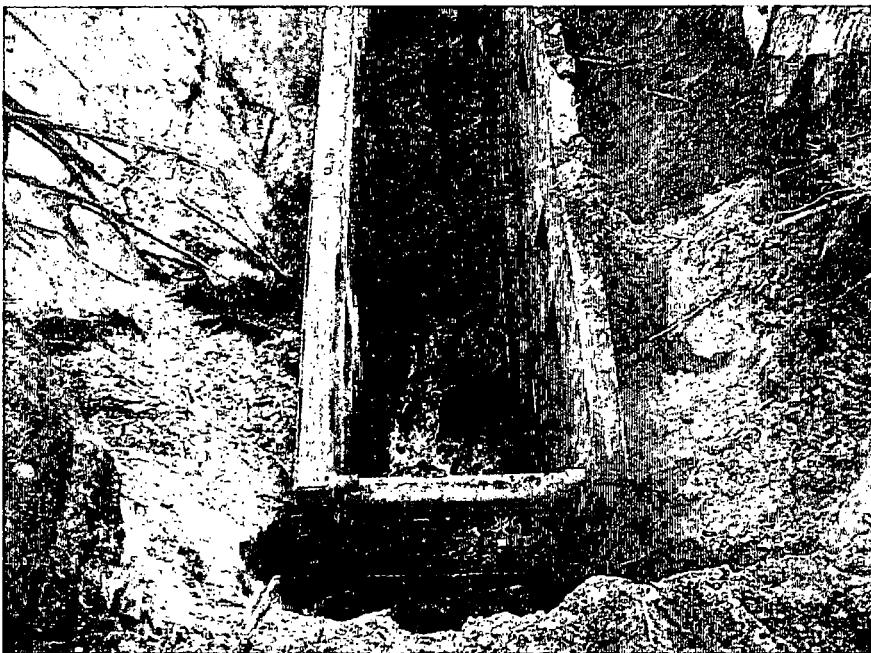
Photographer: Dave Canfield



CONSTRUCTION REPORT - PASSIVE VAPOR TRENCH ADDITION

Himco Site Trust

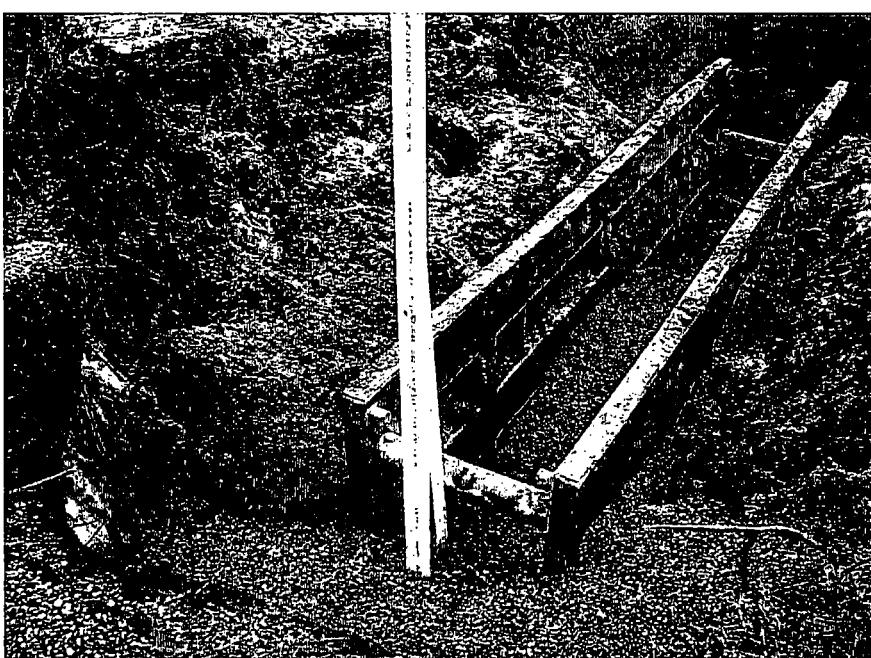
Elkhart, Indiana



Description: Southern PVT excavation

Date: 10/16/2013

Photographer: Dave Canfield



Description: PVT riser with Type A1 aggregate backfill

Date: 10/16/2013

Photographer: Dave Canfield



CONSTRUCTION REPORT – PASSIVE VAPOR TRENCH ADDITION
Himco Site Trust
Elkhart, Indiana



Description: Geotextile placement above PVT

Date: 10/18/2013

Photographer: Dave Canfield



Description: Topsoil restoration above PVT

Date: 10/18/2013

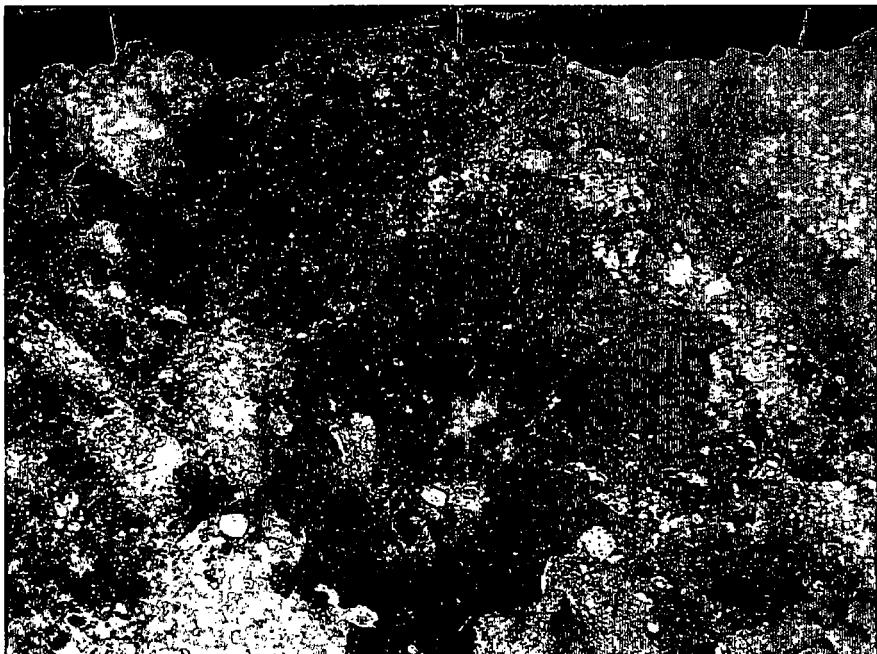
Photographer: Dave Canfield



CONSTRUCTION REPORT - PASSIVE VAPOR TRENCH ADDITION

Himco Site Trust

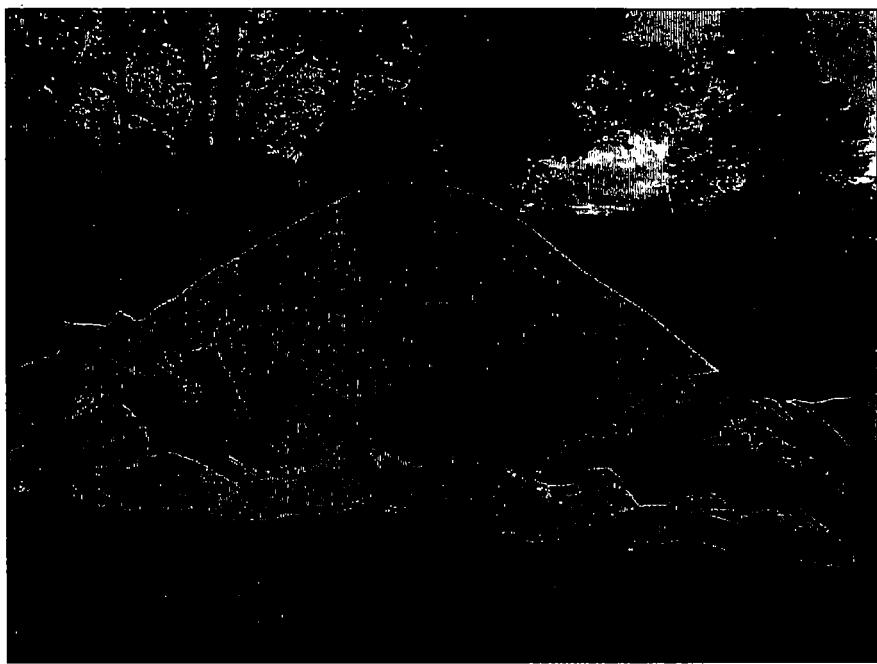
Elkhart, Indiana



Description: Waste encountered in southern PVT

Date: 10/22/2013

Photographer: Dave Canfield



Description: Stockpiled waste covered with visqueen and clean soil for ballast over visqueen.

Date: 10/22/2013

Photographer: Dave Canfield



CONSTRUCTION REPORT – PASSIVE VAPOR TRENCH ADDITION

Himco Site Trust

Elkhart, Indiana



Description: Western PVT installation

Date: 10/23/2013

Photographer: Dave Canfield



Description: Organic soil layer encountered in western PVT excavation

Date: 10/23/2013

Photographer: Dave Canfield



CONSTRUCTION REPORT – PASSIVE VAPOR TRENCH ADDITION
Himco Site Trust
Elkhart, Indiana



Description: Completed PVT riser

Date: 10/28/2013

Photographer: Dave Canfield



Description: Soil stockpiles from southern PVT

Date: 10/29/2013

Photographer: Dave Canfield



CONSTRUCTION REPORT – PASSIVE VAPOR TRENCH ADDITION

Himco Site Trust
Elkhart, Indiana



Description: Soil stockpile from southern PVT

Date: 10/29/2013

Photographer: Dave Canfield



Description: Soil stockpile from western PVT

Date: 10/29/2013

Photographer: Dave Canfield



CONSTRUCTION REPORT – PASSIVE VAPOR TRENCH ADDITION

Himco Site Trust

Elkhart, Indiana



Description: Waste stockpile removal

Date: 11/13/2013

Photographer: Dave Canfield



Description: Perimeter fence repair

Date: 11/13/2013

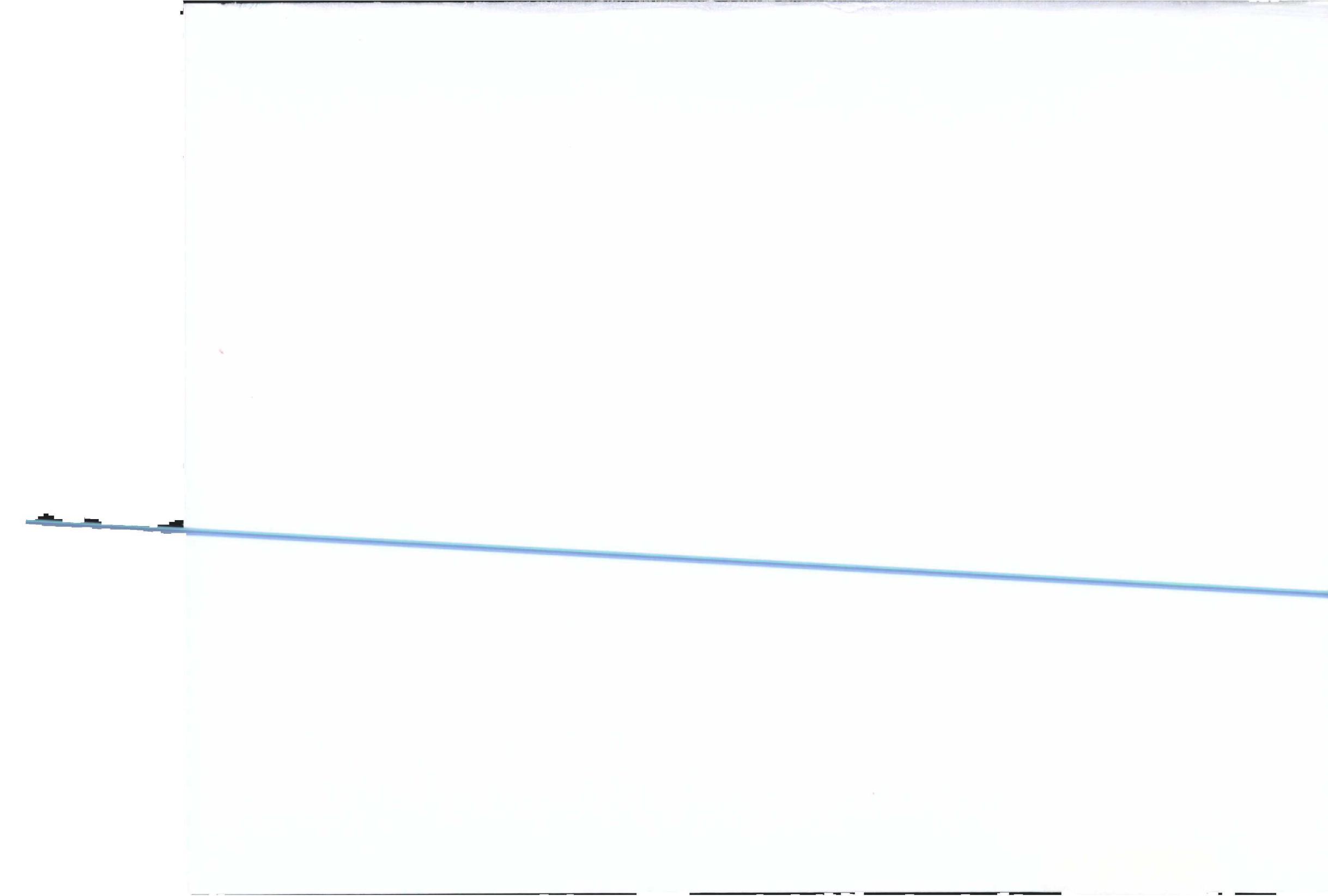
Photographer: Dave Canfield

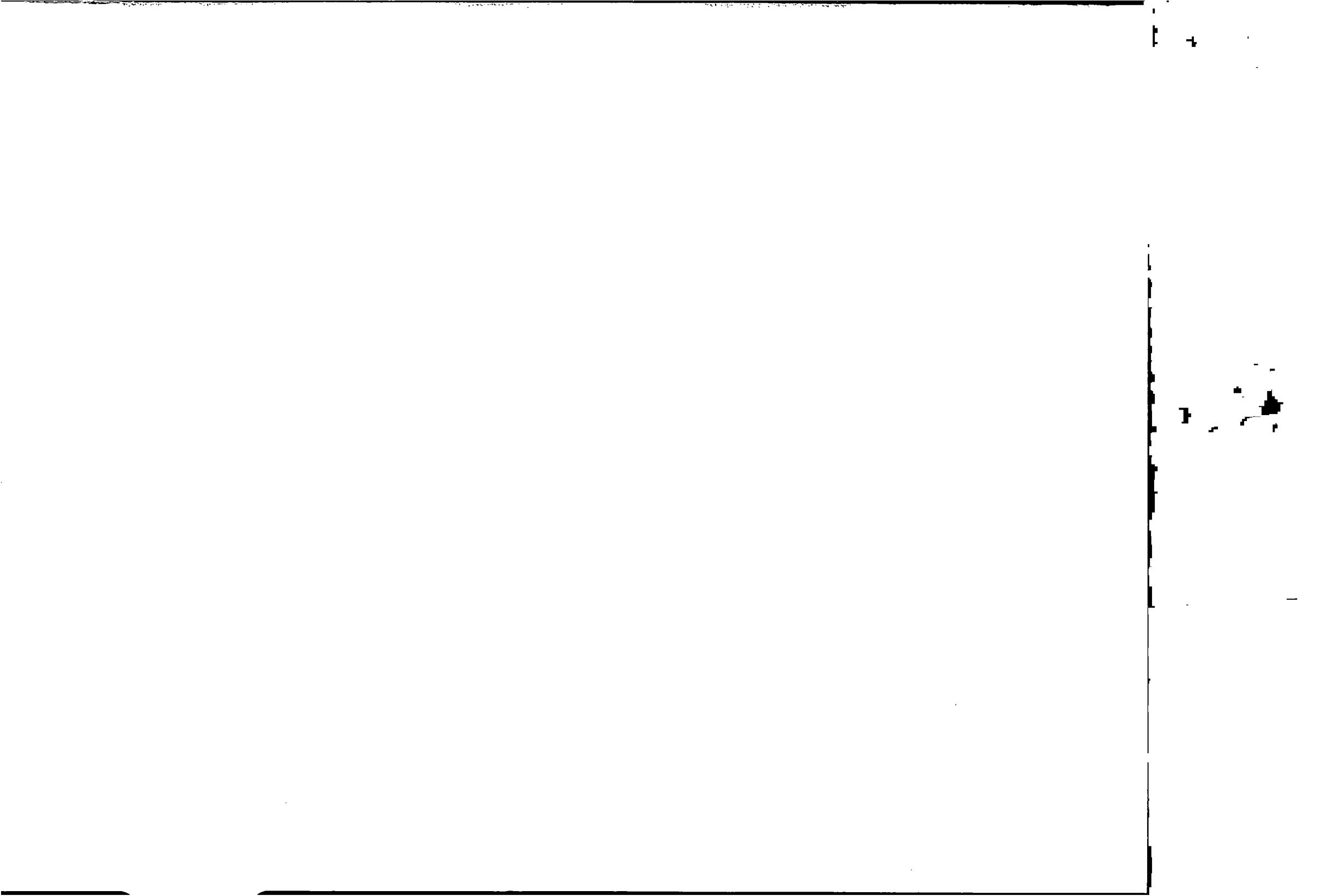


CONSTRUCTION REPORT – PASSIVE VAPOR TRENCH ADDITION

Himco Site Trust

Elkhart, Indiana





Appendix B

Stormwater Pollution Prevention Plan Permit



**Construction/Stormwater Pollution Prevention Plan
Technical Review and Comment (Form 1)**

Revised 10/10

Page 1 of 4

Project Information	Project Name: Himco Site			
	Plan Submittal Date:	09/11/13	Revisions Submitted:	09/23/13
	Muni Jurisdiction:	City of Elkhart	Hydrologic Unit Code (14 Digit):	04050001220010
	Project Location Description: NW corner of CR 10 and John Weaver Parkway			
	Latitude and Longitude:	N 41°42'37" W 8601760'18"		Acreage Disturbed: 1.5 acres
	Civil Township:	Cleveland	Quarter:	NE Section: 36 Township: 38N Range: 4E
	Project Owner Name: Himco Trust			
	Contact:	Tom Lenz		
	Address:	430 S. Betger Street		
	City:	Mishawaka	State:	IN Zip: 46544
Phone:	(574) 257-3688	FAX:	(269) 344-8558 E-Mail: tom.lenz@bayer.com	
Plan Preparer Name:	Douglas Gatrell			
Affiliation:	CRA Services			
Address:	14496 Sheldon Road, Suite 200			
City:	Plymouth	State:	MI Zip: 48170	
Phone:	(734) 453-5123	FAX:	(734) 453-5201 E-Mail: dgatrell@craworld.com	
On-site Erosion Control Supervisor:	S. Weigman (CRA Services)			
Phone:	(269) 685-5181	FAX:	(269) 685-5223 E-Mail: sweigman@craworld.com	
Plan Review	Review Date: 9/20/2013 & 9-27			
	Expiration Date:	12/31/14 Renewal Date: 01/31/15		
	Principal Plan Reviewer:	Jason Kauffman, Urban Conservationist		
	Agency:	Elkhart County Soil and Water Conservation District		
	Address:	17746-B CR 34	City:	Goshen State: Indiana Zip: 46528
	Phone:	(574) 533-4383 x3	FAX:	855-408-4690 E-Mail: jason.kauffman@in.nacdnet.net
Assisted by:	Eric Kurtz, Stormwater Coordinator			
<input checked="" type="checkbox"/> PLAN IS ADEQUATE: A comprehensive plan review has been completed and it has been determined that the plan satisfies the minimum requirements and intent of 327 IAC 15-5.				
<input checked="" type="checkbox"/> Please refer to additional information included on the following page(s).				
<input checked="" type="checkbox"/> Submit Notice of Intent (NOI): Attach a copy of this cover page when submitting the NOI to the Indiana Department of Environmental Management. Construction activities may begin 48 hours following the submittal of the NOI. A copy of the NOI must also be sent to the Reviewing Authority (SWCD).				
<input type="checkbox"/> A preliminary plan review has been completed; a comprehensive review will not be completed within the 28-day review period. The reviewing authority reserves the right to perform a comprehensive review at a later date and revisions to the plan may be required at that time to address deficiencies.				
<input type="checkbox"/> Please refer to additional information included on the following page(s).				
<input type="checkbox"/> Submit Notice of Intent (NOI): Attach a copy of this cover page when submitting the NOI to the Indiana Department of Environmental Management. Construction activities may begin 48 hours following the submittal of the NOI. A copy of the NOI must also be sent to the Reviewing Authority (SWCD).				
<input type="checkbox"/> PLAN IS DEFICIENT: Significant deficiencies were identified during the plan review.				
<input type="checkbox"/> Please refer to additional information included on the following page(s).				
<input type="checkbox"/> DO NOT file a Notice of Intent for this project.				
<input type="checkbox"/> DO NOT commence land disturbing activities until all deficiencies are adequately addressed, the plan resubmitted, and notification has been received that the minimum requirements have been satisfied.				
<input type="checkbox"/> Plan Revisions <input type="checkbox"/> Deficient Items should be mailed or delivered to the Principal Plan Reviewer identified in the Plan Review Section above.				

Construction/Stormwater Pollution Prevention Plan - Technical Review and Comment (Form 1)

Project Name: Himco Site
Date Reviewed: 9/20/2013 & 9-27

Page 2 of 4

The technical review and comments are intended to evaluate the completeness of the Construction/Stormwater Pollution Prevention Plan for the project. The Plan submitted was not reviewed for the adequacy of the engineering design. All measures included in the plan, as well as those recommended in the comments should be evaluated as to their feasibility by a qualified individual with structural measures designed by a qualified engineer. The Plan has not been reviewed for other local, state, or federal permits that may be required to proceed with this project. Additional information, including design calculations may be requested to further evaluate the Plan.

All proposed stormwater pollution prevention measures and those referenced in this review must meet the design criteria and standards set forth in the "Indiana Stormwater Quality Manual" from the Indiana Department of Environmental Management or similar Guidance Documents.

Please direct questions and/or comments regarding this plan review to:

Jason Kauffman, Urban Conservationist

Please refer to the address and contact information identified in the Plan Review Section on page 1.

Assessment of Construction Plan Elements (Section A)

The Construction Plan Elements are adequately represented to complete a plan review:

Yes No

The items checked below are deficient and require submittal to meet the requirements of the rule.

A		A	
<input type="checkbox"/>	1 Index showing locations of required Plan Elements	<input type="checkbox"/>	2 11 by 17 inch plat showing building lot numbers/boundaries and road layout/names
<input type="checkbox"/>	3 Narrative describing the nature and purpose of the project	<input type="checkbox"/>	4 Vicinity map showing project location
<input type="checkbox"/>	5 Legal Description of the Project Site <i>(Include Latitude and Longitude - NOI Requirement)</i>	<input type="checkbox"/>	6 Location of all lots and proposed site improvements (roads, utilities, structures, etc.)
<input type="checkbox"/>	7 Hydrologic unit code (14 Digit)	<input type="checkbox"/>	8 Notation of any State or Federal water quality permits
<input type="checkbox"/>	9 Specific points where stormwater discharge will leave the site	<input type="checkbox"/>	10 Location and name of all wetlands, lakes and water courses on and adjacent to the site
<input type="checkbox"/>	11 Identification of all receiving waters	<input type="checkbox"/>	12 Identification of potential discharges to ground water (abandoned wells, sinkholes, etc.)
<input type="checkbox"/>	13 100 year floodplains, floodways, and floodway fringes	<input type="checkbox"/>	14 Pre-construction and post construction estimate of Peak Discharge (10 Year storm event)
<input type="checkbox"/>	15 Adjacent landuse, including upstream watershed	<input type="checkbox"/>	16 Locations and approximate boundaries of all disturbed areas (Construction Limits)
<input type="checkbox"/>	17 Identification of existing vegetative cover	<input type="checkbox"/>	18 Soils map including soil descriptions and limitations
<input type="checkbox"/>	19 Locations, size, and dimensions of proposed stormwater systems (e.g. pipes, swales, and channels)	<input type="checkbox"/>	20 Plans for any off-site construction activities associated with this project (sewer/water tie-ins)
<input type="checkbox"/>	21 Locations of proposed soil stockpiles and/or borrow/disposal areas	<input type="checkbox"/>	22 Existing site topography at an interval appropriate to indicate drainage patterns
<input type="checkbox"/>	23 Proposed final topography at an interval appropriate to indicate drainage patterns		

Construction/Stormwater Pollution Prevention Plan - Technical Review and Comment (Form 1)

Project Name: Himco Site
Date Reviewed: 9/20/2013 & 9-27

Page 3 of 4

Assessment of Stormwater Pollution Prevention Plan				Sections B & C)
Stormwater Pollution Prevention Plan - Construction Component (Section B)				Component (Section C)
Adequate	Deficient	Not Applicable	B	
<p><i>The construction component of the Stormwater Pollution Prevention Plan includes stormwater quality measures to address erosion sedimentation, and other pollutants associated with land disturbance and other activities. Proper implementation of the plan and inspections of the construction site are necessary to minimize the discharge of pollutants. The Project Site Owner should be aware that unforeseen construction activities and weather conditions may affect the performance of a practice or the effectiveness of the plan. The plan must be a flexible document with provisions to modify or substitute practices as necessary.</i></p>				
1 Description of potential pollutant sources associated with construction activities				
2 Sequence describing stormwater quality measure implementation relative to land disturbing activities				
3 Stable construction entrance locations and specifications (at all points of ingress and egress)				
4 Sediment control measures for sheet flow areas				
5 Sediment control measures for concentrated flow areas				
6 Storm sewer inlet protection measure locations and specifications				
7 Runoff control measures (e.g. diversions, rock check dams, slope drains, etc.)				
8 Stormwater outlet protection specifications				
9 Grade stabilization structure locations and specifications				
10 Location, dimensions, specifications, and construction details of each stormwater quality measure				
11 Temporary surface stabilization methods appropriate for each season (include sequencing)				
12 Permanent surface stabilization specifications (include sequencing)				
13 Material handling and spill prevention plan				
14 Monitoring and maintenance guidelines for each proposed stormwater quality measure				
15 Erosion and sediment control specifications for individual building lots				
Stormwater Pollution Prevention Plan - Post-Construction Component (Section C)				
Municipal Jurisdiction: <input checked="" type="checkbox"/> City of Elkhart <input type="checkbox"/> City of Goshen				<input type="checkbox"/> Elkhart County
<p><i>Each partner/entity of The Greater Elkhart County Stormwater Partnership (Partnership) has specific requirements for a Post-Construction Plan. Each entity will review and approve the Post-Construction Plan for a SWPPP prior to the Elkhart County SWCD approving a project's SWPPP. The post-construction component of the SWPPP includes the implementation of stormwater quality measures to address pollutants that will be associated with the final landuse. Post-construction stormwater quality measures should be functional upon completion of the project. Long term functionality of the measures are critical to their performance and should be monitored and maintained according to the requirements of local, state, and national ordinances, regulations, and laws.</i></p>				
<input checked="" type="checkbox"/> The SWCD has received notice that the Post-Construction Plan has been approved by the appropriate Partnership entity. Notification Received: September 23, 2013				
<input type="checkbox"/> The SWCD has not received notice that the Post-Construction Plan has been approved by the appropriate Partnership entity.				

Construction/Stormwater Pollution Prevention Plan - Technical Review and Comment

Project Name: Himco Site
Date Reviewed: 9/20/2013 & 9-27

Page 4 of 4

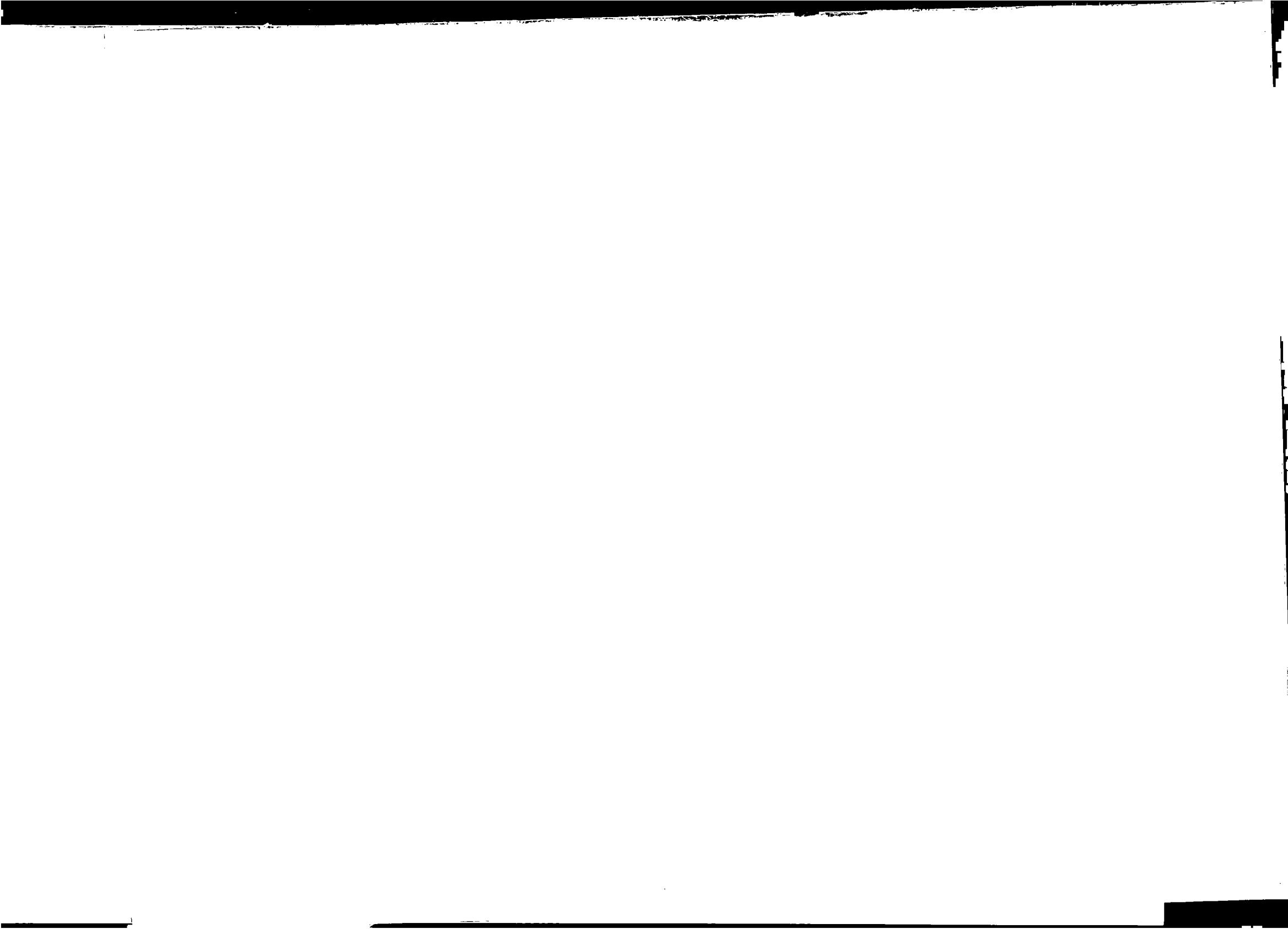
Please remember to submit a renewal application if construction continues past Dec. 31, 2014.

Remember that Rule 5 requires self-inspection after every half-inch rain event and at least weekly.

A Notice of Termination (NOT) must be submitted and approved by the Elkhart County SWCD when construction is completed. There is an early termination option if there is less than 5 acres total unfinished, and less than 1 acre contiguous.

039611 (36)
January 2014





PREPARED BY:



**CONESTOGA-ROVERS
& ASSOCIATES**

200 W. Allegan Street, Suite 300
Plainwell, Michigan 49080
Telephone: (269) 685-5111 Fax: (269) 685-5223
www.CRAworld.com

SUBMITTAL

DATE: 10-15-13

SUBMITTAL NO.: 82098-40

PROJECT NO.: 82098

PROJECT NAME: Himco PVT 2013

CLIENT: Bayer HealthCare LLC
6 West Belt Plaza
Wayne, New Jersey 07470

ENGINEER: Conestoga-Rovers & Associates
651 Colby Drive
Waterloo, ON N2V 1C2

SUPPLIER: Klink Companies
Elkhart County Sand and Gravel
19242 US 6 East
New Paris, IN

SUBCONTRACTOR: _____

MANUFACTURER: _____

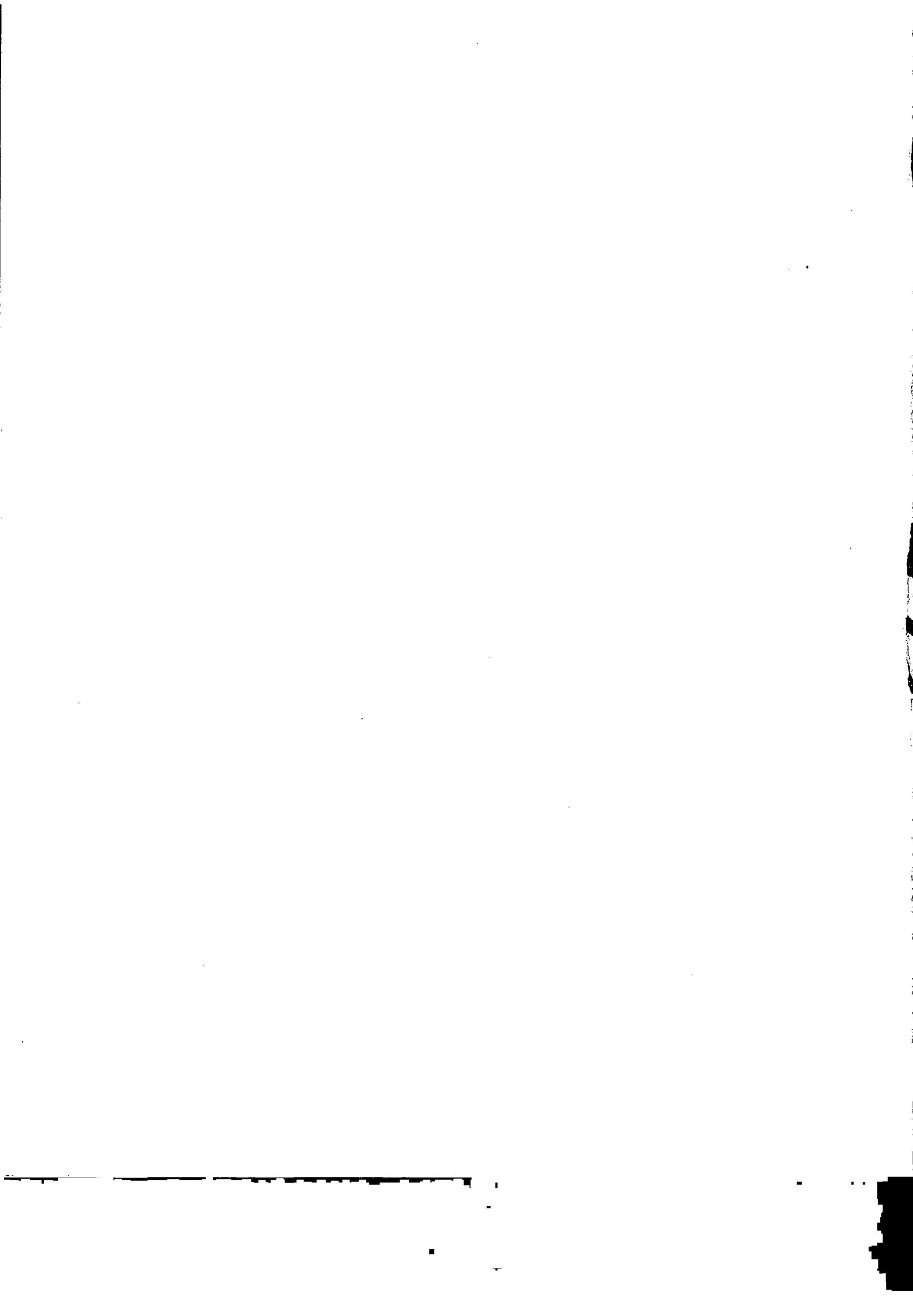
QTY	SPEC. NO. & TITLE	DWG. NO.	DESCRIPTION / LOCATION INSTALLED
1	2060 Aggregate	N/A	Progress Submittals- Ventilation Trench

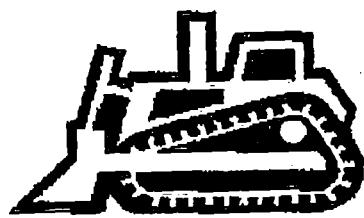
CONSTRUCTION MANAGER'S/ ENGINEER'S REVIEW AND APPROVAL:

COPY TO: Tom Lenz (Bayer)
Doug Gatrell (CRA)
Nicole Shanks (CRA)

COMPLETED BY: Don Osterhout
[Please Print]

SIGNED:





ELKHART COUNTY GRAVEL

INCORPORATED

8 GRAVEL GRADATION

PLANT NAME	MIDD 2	SOURCE #	2700
TEST DATE	10/4/2013	TEST TYPE	PROD
TEST WEIGHT	6906.7	TEST #	100413M2

SIEVE SIZE

English	Metric	-	WT Retained	WT Passing	% Passing	% Required
1 1/2"	37.5 mm		0	6906.7	100	100
1"	25 mm		0	6906.7	00.0	100
3/4"	19 mm		692.4	6214.3	0.0	75-95
1/2"	12.5 mm		3009.2	3205.1	6.4	40-70
3/8"	9.5 mm		916.6	2288.5	3.1	20-50
# 4	4.75 mm		1987.5	301	4.4	0-15
# 8	2.36 mm		245	56	0.8	0-10
# 16	1.18 mm					
# 30	600 um					
# 50	300 um					
# 100	150 um					
# 200	75 um					
PAN	PAN					
		Original	Final	WT LOSS	% LOSS	
		6906.7	6850.7	56	0.8	0-1.5

PASS

FAIL

Certified By:

T. Green



SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Conestoga-Rovers & Associates

14496 Sheldon Road

Suite 200

Plymouth, MI 48170

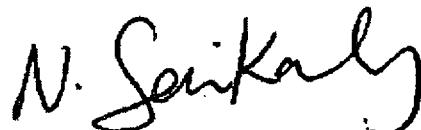
Attention: Paul Wiseman

Project Name: HIMCO

Project Number: 056916-36

Lot Number: OI24004

Date Completed: 09/28/2013



Nisreen Saikaly

Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

• • • • • • • •

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

Case Narrative Conestoga-Rovers & Associates Lot Number: OI24004

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

The sample results associated with a P qualifier have a relative percent difference (RPD) between the two dissimilar phase GC columns which exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to disparity of the two results, it is likely that the reported results are biased high, or maybe a false positive

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
Conestoga-Rovers & Associates
Lot Number: OI24004

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SO-092313-EB-001	Solid	09/23/2013 1615	09/24/2013
002	SO-092313-EB-002	Solid	09/23/2013 1620	09/24/2013

(2 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary Conestoga-Rovers & Associates Lot Number: OI24004

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SO-092313-EB-001	Solid	Benzo(b)fluoranthene	8270D	380		ug/kg	8
001	SO-092313-EB-001	Solid	alpha-Chlordane	8081B	17		ug/kg	12
001	SO-092313-EB-001	Solid	gamma-Chlordane	8081B	17	P	ug/kg	12
001	SO-092313-EB-001	Solid	Aluminum	6010C	6000		mg/kg	13
001	SO-092313-EB-001	Solid	Arsenic	6010C	3.9		mg/kg	13
001	SO-092313-EB-001	Solid	Barium	6010C	44		mg/kg	13
001	SO-092313-EB-001	Solid	Calcium	6010C	6900		mg/kg	13
001	SO-092313-EB-001	Solid	Chromium	6010C	8.3		mg/kg	13
001	SO-092313-EB-001	Solid	Cobalt	6010C	3.4		mg/kg	13
001	SO-092313-EB-001	Solid	Copper	6010C	12		mg/kg	13
001	SO-092313-EB-001	Solid	Iron	6010C	10000		mg/kg	13
001	SO-092313-EB-001	Solid	Lead	6010C	23		mg/kg	13
001	SO-092313-EB-001	Solid	Magnesium	6010C	2900		mg/kg	13
001	SO-092313-EB-001	Solid	Manganese	6010C	320		mg/kg	13
001	SO-092313-EB-001	Solid	Nickel	6010C	7.6		mg/kg	13
001	SO-092313-EB-001	Solid	Potassium	6010C	500		mg/kg	13
001	SO-092313-EB-001	Solid	Vanadium	6010C	18		mg/kg	13
001	SO-092313-EB-001	Solid	Zinc	6010C	49		mg/kg	13
002	SO-092313-EB-002	Solid	Aluminum	6010C	530		mg/kg	22
002	SO-092313-EB-002	Solid	Arsenic	6010C	4.8		mg/kg	22
002	SO-092313-EB-002	Solid	Barium	6010C	5.0		mg/kg	22
002	SO-092313-EB-002	Solid	Calcium	6010C	250000		mg/kg	22
002	SO-092313-EB-002	Solid	Chromium	6010C	3.7		mg/kg	22
002	SO-092313-EB-002	Solid	Copper	6010C	6.9		mg/kg	22
002	SO-092313-EB-002	Solid	Iron	6010C	8500		mg/kg	22
002	SO-092313-EB-002	Solid	Magnesium	6010C	160000		mg/kg	22
002	SO-092313-EB-002	Solid	Manganese	6010C	280		mg/kg	22
002	SO-092313-EB-002	Solid	Nickel	6010C	2.7		mg/kg	22
002	SO-092313-EB-002	Solid	Potassium	6010C	250		mg/kg	22
002	SO-092313-EB-002	Solid	Vanadium	6010C	6.9		mg/kg	22
002	SO-092313-EB-002	Solid	Zinc	6010C	13		mg/kg	22

(31 detections)

Inorganic non-metals

Client: Conestoga-Rovers & Associates

Laboratory ID: OI24004-001

Description: SO-092313-EB-001

Matrix: Solid

Date Sampled: 09/23/2013 1615

% Solids: 91.6 09/24/2013 2025

Date Received: 09/24/2013

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	09/27/2013 1235	KMB	09/26/2013	931 30174

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.55	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 5 of 51

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: Conestoga-Rovers & Associates Description: SO-092313-EB-001 Date Sampled: 09/23/2013 1615 Date Received: 09/24/2013				Laboratory ID: OI24004-001 Matrix: Solid % Solids: 91.6 09/24/2013 2025			
--	--	--	--	---	--	--	--

Run 1	Prep Method 5035	Analytical Method 8260B	Dilution 1	Analysis Date 09/24/2013 1311	Analyst AAC	Prep Date	Batch 30082	Sample Wt.(g) 3.87
Parameter		CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone		67-64-1	8260B	ND		28	ug/kg	1
Benzene		71-43-2	8260B	ND		7.1	ug/kg	1
Bromodichloromethane		75-27-4	8260B	ND		7.1	ug/kg	1
Bromoform		75-25-2	8260B	ND		7.1	ug/kg	1
Bromomethane (Methyl bromide)		74-83-9	8260B	ND		7.1	ug/kg	1
2-Butanone (MEK)		78-93-3	8260B	ND		14	ug/kg	1
Carbon disulfide		75-15-0	8260B	ND		7.1	ug/kg	1
Carbon tetrachloride		56-23-5	8260B	ND		7.1	ug/kg	1
Chlorobenzene		108-90-7	8260B	ND		7.1	ug/kg	1
Chloroethane		75-00-3	8260B	ND		7.1	ug/kg	1
Chloroform		67-66-3	8260B	ND		7.1	ug/kg	1
Chloromethane (Methyl chloride)		74-87-3	8260B	ND		7.1	ug/kg	1
Cyclohexane		110-82-7	8260B	ND		7.1	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8	8260B	ND		7.1	ug/kg	1
Dibromochloromethane		124-48-1	8260B	ND		7.1	ug/kg	1
1,2-Dibromoethane (EDB)		106-93-4	8260B	ND		7.1	ug/kg	1
1,2-Dichlorobenzene		95-50-1	8260B	ND		7.1	ug/kg	1
1,3-Dichlorobenzene		541-73-1	8260B	ND		7.1	ug/kg	1
1,4-Dichlorobenzene		106-46-7	8260B	ND		7.1	ug/kg	1
Dichlorodifluoromethane		75-71-8	8260B	ND		7.1	ug/kg	1
1,1-Dichloroethane		75-34-3	8260B	ND		7.1	ug/kg	1
1,2-Dichloroethane		107-06-2	8260B	ND		7.1	ug/kg	1
1,1-Dichloroethene		75-35-4	8260B	ND		7.1	ug/kg	1
cis-1,2-Dichloroethene		156-59-2	8260B	ND		7.1	ug/kg	1
trans-1,2-Dichloroethene		156-60-5	8260B	ND		7.1	ug/kg	1
1,2-Dichloropropane		78-87-5	8260B	ND		7.1	ug/kg	1
cis-1,3-Dichloropropene		10061-01-5	8260B	ND		7.1	ug/kg	1
trans-1,3-Dichloropropene		10061-02-6	8260B	ND		7.1	ug/kg	1
Ethylbenzene		100-41-4	8260B	ND		7.1	ug/kg	1
2-Hexanone		591-78-6	8260B	ND		14	ug/kg	1
Isopropylbenzene		98-82-8	8260B	ND		7.1	ug/kg	1
Methyl acetate		79-20-9	8260B	ND		7.1	ug/kg	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		7.1	ug/kg	1
4-Methyl-2-pentanone		108-10-1	8260B	ND		14	ug/kg	1
Methylcyclohexane		108-87-2	8260B	ND		7.1	ug/kg	1
Methylene chloride		75-09-2	8260B	ND		7.1	ug/kg	1
Styrene		100-42-5	8260B	ND		7.1	ug/kg	1
1,1,2,2-Tetrachloroethane		79-34-5	8260B	ND		7.1	ug/kg	1
Tetrachloroethene		127-18-4	8260B	ND		7.1	ug/kg	1
Toluene		108-88-3	8260B	ND		7.1	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane		76-13-1	8260B	ND		7.1	ug/kg	1
1,2,4-Trichlorobenzene		120-82-1	8260B	ND		7.1	ug/kg	1
1,1,1-Trichloroethane		71-55-6	8260B	ND		7.1	ug/kg	1
1,1,2-Trichloroethane		79-00-5	8260B	ND		7.1	ug/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: Conestoga-Rovers & Associates

Laboratory ID: OI24004-001

Description: SO-092313-EB-001

Matrix: Solid

Date Sampled: 09/23/2013 1615

% Solids: 91.6 09/24/2013 2025

Date Received: 09/24/2013

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)	
1	5035	8260B	1	09/24/2013 1311	AAC		30082	3.87	
Parameter		CAS Number		Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene		79-01-6		8260B	ND		7.1	ug/kg	1
Trichlorofluoromethane		75-69-4		8260B	ND		7.1	ug/kg	1
Vinyl chloride		75-01-4		8260B	ND		7.1	ug/kg	1
Xylenes (total)		1330-20-7		8260B	ND		7.1	ug/kg	1
Surrogate	Q	Run 1 % Recovery		Acceptance Limits					
1,2-Dichloroethane-d4		113		53-142					
Bromofluorobenzene		80		47-138					
Toluene-d8		100		68-124					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

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Semivolatile Organic Compounds by GC/MS

Client: Conestoga-Rovers & Associates Description: SO-092313-EB-001 Date Sampled: 09/23/2013 1615 Date Received: 09/24/2013				Laboratory ID: OI24004-001 Matrix: Solid % Solids: 91.6 09/24/2013 2025			
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Run		Analytical Method		Analysis Date		Analyst		Prep Date	
1	3550C	8270D	1	09/25/2013 1658	RBH	09/24/2013 1816	30120		
Parameter		CAS Number		Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene		83-32-9		8270D	ND		360	ug/kg	1
Acenaphthylene		208-96-8		8270D	ND		360	ug/kg	1
Acetophenone		98-86-2		8270D	ND		360	ug/kg	1
Anthracene		120-12-7		8270D	ND		360	ug/kg	1
Atrazine		1912-24-9		8270D	ND		360	ug/kg	1
Benzaldehyde		100-52-7		8270D	ND		890	ug/kg	1
Benzo(a)anthracene		56-55-3		8270D	ND		360	ug/kg	1
Benzo(a)pyrene		50-32-8		8270D	ND		360	ug/kg	1
Benzo(b)fluoranthene		205-99-2		8270D	380		360	ug/kg	1
Benzo(g,h,i)perylene		191-24-2		8270D	ND		360	ug/kg	1
Benzo(k)fluoranthene		207-08-9		8270D	ND		360	ug/kg	1
1,1'-Biphenyl		92-52-4		8270D	ND		360	ug/kg	1
4-Bromophenyl phenyl ether		101-55-3		8270D	ND		360	ug/kg	1
Butyl benzyl phthalate		85-68-7		8270D	ND		360	ug/kg	1
Caprolactam		105-60-2		8270D	ND		890	ug/kg	1
Carbazole		86-74-8		8270D	ND		360	ug/kg	1
4-Chloro-3-methyl phenol		59-50-7		8270D	ND		360	ug/kg	1
4-Chloroaniline		106-47-8		8270D	ND		360	ug/kg	1
bis(2-Chloroethoxy)methane		111-91-1		8270D	ND		360	ug/kg	1
bis(2-Chloroethyl)ether		111-44-4		8270D	ND		360	ug/kg	1
bis(2-Chloroisopropyl)ether		108-60-1		8270D	ND		360	ug/kg	1
2-Chloronaphthalene		91-58-7		8270D	ND		360	ug/kg	1
2-Chlorophenol		95-57-8		8270D	ND		360	ug/kg	1
4-Chlorophenyl phenyl ether		7005-72-3		8270D	ND		360	ug/kg	1
Chrysene		218-01-9		8270D	ND		360	ug/kg	1
Di-n-butyl phthalate		84-74-2		8270D	ND		360	ug/kg	1
Di-n-octylphthalate		117-84-0		8270D	ND		360	ug/kg	1
Dibenzo(a,h)anthracene		53-70-3		8270D	ND		360	ug/kg	1
Dibenzofuran		132-64-9		8270D	ND		360	ug/kg	1
3,3'-Dichlorobenzidine		91-94-1		8270D	ND		890	ug/kg	1
2,4-Dichlorophenol		120-83-2		8270D	ND		360	ug/kg	1
Diethylphthalate		84-66-2		8270D	ND		360	ug/kg	1
Dimethyl phthalate		131-11-3		8270D	ND		360	ug/kg	1
2,4-Dimethylphenol		105-67-9		8270D	ND		360	ug/kg	1
4,6-Dinitro-2-methylphenol		534-52-1		8270D	ND		890	ug/kg	1
2,4-Dinitrophenol		51-28-5		8270D	ND		890	ug/kg	1
2,4-Dinitrotoluene		121-14-2		8270D	ND		360	ug/kg	1
2,6-Dinitrotoluene		606-20-2		8270D	ND		360	ug/kg	1
bis(2-Ethylhexyl)phthalate		117-81-7		8270D	ND		360	ug/kg	1
Fluoranthene		206-44-0		8270D	ND		360	ug/kg	1
Fluorene		86-73-7		8270D	ND		360	ug/kg	1
Hexachlorobenzene		118-74-1		8270D	ND		360	ug/kg	1
Hexachlorobutadiene		87-68-3		8270D	ND		360	ug/kg	1
Hexachlorocyclopentadiene		77-47-4		8270D	ND		890	ug/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: Conestoga-Rovers & Associates	Laboratory ID: OI24004-001
Description: SO-092313-EB-001	Matrix: Solid
Date Sampled: 09/23/2013 1615	% Solids: 91.6 09/24/2013 2025
Date Received: 09/24/2013	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/25/2013 1658	RBH	09/24/2013	316 30120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		360	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		360	ug/kg	1
Isophorone	78-59-1	8270D	ND		360	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		360	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		360	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		720	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		360	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		360	ug/kg	1
Naphthalene	91-20-3	8270D	ND		360	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		360	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		360	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		360	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		360	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		360	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		890	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		890	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		360	ug/kg	1
Phenol	108-95-2	8270D	ND		360	ug/kg	1
Pyrene	129-00-0	8270D	ND		360	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		360	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		360	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		107	30-117
2-Fluorobiphenyl		86	33-102
2-Fluorophenol		73	28-104
Nitrobenzene-d5		65	22-109
Phenol-d5		76	27-103
Terphenyl-d14		95	41-120

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the PQL	J = Estimated result < PQL and \geq MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"			

Herbicides by GC

Client: Conestoga-Rovers & Associates	Laboratory ID: OI24004-001
Description: SO-092313-EB-001	Matrix: Solid
Date Sampled: 09/23/2013 1615	% Solids: 91.6 09/24/2013 2025
Date Received: 09/24/2013	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8151A	8151A	1	09/26/2013 2002	AMY	09/24/2013 0854	30128
Parameter		CAS Number		Analytical Method	Result	Q	PQL
2,4-D		94-75-7		8151A	ND		44
2,4,5-T		93-76-5		8151A	ND		11
2,4,5-TP (Silvex)		93-72-1		8151A	ND		11
Surrogate		Q	Run 1 % Recovery	Acceptance Limits			
DCAA		77		44-114			

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the PQL J = Estimated result < PQL and \geq MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: Conestoga-Rovers & Associates

Laboratory ID: OI24004-001

Description: SO-092313-EB-001

Matrix: Solid

Date Sampled: 09/23/2013 1615

% Solids: 91.6 09/24/2013 2025

Date Received: 09/24/2013

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8082A	1	09/27/2013 1851	AMY	09/25/2013	1026 30162

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		18	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		18	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		18	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		18	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		18	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		18	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		18	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits				
Decachlorobiphenyl	92	41-132					
Tetrachloro-m-xylene	95	35-106					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: Conestoga-Rovers & Associates

Laboratory ID: OI24004-001

Description: SO-092313-EB-001

Matrix: Solid

Date Sampled: 09/23/2013 1615

% Solids: 91.6 09/24/2013 2025

Date Received: 09/24/2013

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	5	09/26/2013 1414	PMS	09/25/2013 1026	30163

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		9.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		9.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		9.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		9.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		9.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	17		9.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	17	P	9.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		9.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		9.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		9.1	ug/kg	1
Dieldrin	60-57-1	8081B	ND		9.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		9.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		9.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		9.1	ug/kg	1
Endrin	72-20-8	8081B	ND		9.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		9.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		9.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		9.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		9.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		36	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		440	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		83	57-110
Tetrachloro-m-xylene		86	37-91

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: Conestoga-Rovers & Associates

Laboratory ID: OI24004-001

Description: SO-092313-EB-001

Matrix: Solid

Date Sampled: 09/23/2013 1615

% Solids: 91.6 09/24/2013 2025

Date Received: 09/24/2013

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	09/26/2013 1219	COH	09/26/2013 044	30274
1	3050B	6010C	1	09/24/2013 2228	CDF	09/24/2013 027	30044

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	6000		10	mg/kg	1
Antimony	7440-36-0	6010C	ND		0.51	mg/kg	1
Arsenic	7440-38-2	6010C	3.9		0.51	mg/kg	1
Barium	7440-39-3	6010C	44		1.3	mg/kg	1
Beryllium	7440-41-7	6010C	ND		0.20	mg/kg	1
Cadmium	7440-43-9	6010C	ND		0.10	mg/kg	1
Calcium	7440-70-2	6010C	6900		250	mg/kg	1
Chromium	7440-47-3	6010C	8.3		0.25	mg/kg	1
Cobalt	7440-48-4	6010C	3.4		1.3	mg/kg	1
Copper	7440-50-8	6010C	12		0.25	mg/kg	1
Iron	7439-89-6	6010C	10000		5.1	mg/kg	1
Lead	7439-92-1	6010C	23		0.51	mg/kg	1
Magnesium	7439-95-4	6010C	2900		250	mg/kg	1
Manganese	7439-96-5	6010C	320		0.76	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.078	mg/kg	1
Nickel	7440-02-0	6010C	7.6		2.0	mg/kg	1
Potassium	7440-09-7	6010C	500		250	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.51	mg/kg	1
Silver	7440-22-4	6010C	ND		0.25	mg/kg	1
Sodium	7440-23-5	6010C	ND		250	mg/kg	1
Thallium	7440-28-0	6010C	ND		2.5	mg/kg	1
Vanadium	7440-62-2	6010C	18		2.5	mg/kg	1
Zinc	7440-66-6	6010C	49		2.5	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

P = The RPD between two GC columns exceeds

% N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: Conestoga-Rovers & Associates

Laboratory ID: OI24004-002

Description: SO-092313-EB-002

Matrix: Solid

Date Sampled: 09/23/2013 1620

% Solids: 97.5 09/24/2013 2025

Date Received: 09/24/2013

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	09/27/2013 1237	KMB	09/26/2013 0931	30174

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.51	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: Conestoga-Rovers & Associates Description: SO-092313-EB-002 Date Sampled: 09/23/2013 1620 Date Received: 09/24/2013				Laboratory ID: OI24004-002 Matrix: Solid % Solids: 97.5 09/24/2013 2025			
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Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)	
Parameter		CAS Number		Analytical Method	Result	Q	PQL	Units	Run
Acetone		67-64-1		8260B	ND		20	ug/kg	1
Benzene		71-43-2		8260B	ND		5.1	ug/kg	1
Bromodichloromethane		75-27-4		8260B	ND		5.1	ug/kg	1
Bromoform		75-25-2		8260B	ND		5.1	ug/kg	1
Bromomethane (Methyl bromide)		74-83-9		8260B	ND		5.1	ug/kg	1
2-Butanone (MEK)		78-93-3		8260B	ND		10	ug/kg	1
Carbon disulfide		75-15-0		8260B	ND		5.1	ug/kg	1
Carbon tetrachloride		56-23-5		8260B	ND		5.1	ug/kg	1
Chlorobenzene		108-90-7		8260B	ND		5.1	ug/kg	1
Chloroethane		75-00-3		8260B	ND		5.1	ug/kg	1
Chloroform		67-66-3		8260B	ND		5.1	ug/kg	1
Chloromethane (Methyl chloride)		74-87-3		8260B	ND		5.1	ug/kg	1
Cyclohexane		110-82-7		8260B	ND		5.1	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8		8260B	ND		5.1	ug/kg	1
Dibromochloromethane		124-48-1		8260B	ND		5.1	ug/kg	1
1,2-Dibromoethane (EDB)		106-93-4		8260B	ND		5.1	ug/kg	1
1,2-Dichlorobenzene		95-50-1		8260B	ND		5.1	ug/kg	1
1,3-Dichlorobenzene		541-73-1		8260B	ND		5.1	ug/kg	1
1,4-Dichlorobenzene		106-46-7		8260B	ND		5.1	ug/kg	1
Dichlorodifluoromethane		75-71-8		8260B	ND		5.1	ug/kg	1
1,1-Dichloroethane		75-34-3		8260B	ND		5.1	ug/kg	1
1,2-Dichloroethane		107-06-2		8260B	ND		5.1	ug/kg	1
1,1-Dichloroethene		75-35-4		8260B	ND		5.1	ug/kg	1
cis-1,2-Dichloroethene		156-59-2		8260B	ND		5.1	ug/kg	1
trans-1,2-Dichloroethene		156-60-5		8260B	ND		5.1	ug/kg	1
1,2-Dichloropropane		78-87-5		8260B	ND		5.1	ug/kg	1
cis-1,3-Dichloropropene		10061-01-5		8260B	ND		5.1	ug/kg	1
trans-1,3-Dichloropropene		10061-02-6		8260B	ND		5.1	ug/kg	1
Ethylbenzene		100-41-4		8260B	ND		5.1	ug/kg	1
2-Hexanone		591-78-6		8260B	ND		10	ug/kg	1
Isopropylbenzene		98-82-8		8260B	ND		5.1	ug/kg	1
Methyl acetate		79-20-9		8260B	ND		5.1	ug/kg	1
Methyl tertiary butyl ether (MTBE)		1634-04-4		8260B	ND		5.1	ug/kg	1
4-Methyl-2-pentanone		108-10-1		8260B	ND		10	ug/kg	1
Methylcyclohexane		108-87-2		8260B	ND		5.1	ug/kg	1
Methylene chloride		75-09-2		8260B	ND		5.1	ug/kg	1
Styrene		100-42-5		8260B	ND		5.1	ug/kg	1
1,1,2,2-Tetrachloroethane		79-34-5		8260B	ND		5.1	ug/kg	1
Tetrachloroethene		127-18-4		8260B	ND		5.1	ug/kg	1
Toluene		108-88-3		8260B	ND		5.1	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane		76-13-1		8260B	ND		5.1	ug/kg	1
1,2,4-Trichlorobenzene		120-82-1		8260B	ND		5.1	ug/kg	1
1,1,1-Trichloroethane		71-55-6		8260B	ND		5.1	ug/kg	1
1,1,2-Trichloroethane		79-00-5		8260B	ND		5.1	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the PQL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: Conestoga-Rovers & Associates

Laboratory ID: OI24004-002

Description: SO-092313-EB-002

Matrix: Solid

Date Sampled: 09/23/2013 1620

% Solids: 97.5 09/24/2013 2025

Date Received: 09/24/2013

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)	
1	5035	8260B	1	09/24/2013 1358	AAC		30082	5.01	
Parameter		CAS Number		Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene		79-01-6		8260B	ND		5.1	ug/kg	1
Trichlorofluoromethane		75-69-4		8260B	ND		5.1	ug/kg	1
Vinyl chloride		75-01-4		8260B	ND		5.1	ug/kg	1
Xylenes (total)		1330-20-7		8260B	ND		5.1	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		108		53-142					
Bromofluorobenzene		98		47-138					
Toluene-d8		108		68-124					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: Conestoga-Rovers & Associates Description: SO-092313-EB-002 Date Sampled: 09/23/2013 1620 Date Received: 09/24/2013							Laboratory ID: OI24004-002 Matrix: Solid % Solids: 97.5 09/24/2013 2025
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Run 1	Prep Method 3550C	Analytical Method 8270D	Dilution 1	Analysis Date 09/25/2013 1721	Analyst RBH	Prep Date 09/24/2013	Batch 816 30120	
Parameter		CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene		83-32-9	8270D	ND		330	ug/kg	1
Acenaphthylene		208-96-8	8270D	ND		330	ug/kg	1
Acetophenone		98-86-2	8270D	ND		330	ug/kg	1
Anthracene		120-12-7	8270D	ND		330	ug/kg	1
Atrazine		1912-24-9	8270D	ND		330	ug/kg	1
Benzaldehyde		100-52-7	8270D	ND		840	ug/kg	1
Benzo(a)anthracene		56-55-3	8270D	ND		330	ug/kg	1
Benzo(a)pyrene		50-32-8	8270D	ND		330	ug/kg	1
Benzo(b)fluoranthene		205-99-2	8270D	ND		330	ug/kg	1
Benzo(g,h,i)perylene		191-24-2	8270D	ND		330	ug/kg	1
Benzo(k)fluoranthene		207-08-9	8270D	ND		330	ug/kg	1
1,1'-Biphenyl		92-52-4	8270D	ND		330	ug/kg	1
4-Bromophenyl phenyl ether		101-55-3	8270D	ND		330	ug/kg	1
Butyl benzyl phthalate		85-68-7	8270D	ND		330	ug/kg	1
Caprolactam		105-60-2	8270D	ND		840	ug/kg	1
Carbazole		86-74-8	8270D	ND		330	ug/kg	1
4-Chloro-3-methyl phenol		59-50-7	8270D	ND		330	ug/kg	1
4-Chloroaniline		106-47-8	8270D	ND		330	ug/kg	1
bis(2-Chloroethoxy)methane		111-91-1	8270D	ND		330	ug/kg	1
bis(2-Chloroethyl)ether		111-44-4	8270D	ND		330	ug/kg	1
bis(2-Chloroisopropyl)ether		108-60-1	8270D	ND		330	ug/kg	1
2-Chloronaphthalene		91-58-7	8270D	ND		330	ug/kg	1
2-Chlorophenol		95-57-8	8270D	ND		330	ug/kg	1
4-Chlorophenyl phenyl ether		7005-72-3	8270D	ND		330	ug/kg	1
Chrysene		218-01-9	8270D	ND		330	ug/kg	1
Di-n-butyl phthalate		84-74-2	8270D	ND		330	ug/kg	1
Di-n-octylphthalate		117-84-0	8270D	ND		330	ug/kg	1
Dibenzo(a,h)anthracene		53-70-3	8270D	ND		330	ug/kg	1
Dibenzofuran		132-64-9	8270D	ND		330	ug/kg	1
3,3'-Dichlorobenzidine		91-94-1	8270D	ND		840	ug/kg	1
2,4-Dichlorophenol		120-83-2	8270D	ND		330	ug/kg	1
Diethylphthalate		84-66-2	8270D	ND		330	ug/kg	1
Dimethyl phthalate		131-11-3	8270D	ND		330	ug/kg	1
2,4-Dimethylphenol		105-67-9	8270D	ND		330	ug/kg	1
4,6-Dinitro-2-methylphenol		534-52-1	8270D	ND		840	ug/kg	1
2,4-Dinitrophenol		51-28-5	8270D	ND		840	ug/kg	1
2,4-Dinitrotoluene		121-14-2	8270D	ND		330	ug/kg	1
2,6-Dinitrotoluene		606-20-2	8270D	ND		330	ug/kg	1
bis(2-Ethylhexyl)phthalate		117-81-7	8270D	ND		330	ug/kg	1
Fluoranthene		206-44-0	8270D	ND		330	ug/kg	1
Fluorene		86-73-7	8270D	ND		330	ug/kg	1
Hexachlorobenzene		118-74-1	8270D	ND		330	ug/kg	1
Hexachlorobutadiene		87-68-3	8270D	ND		330	ug/kg	1
Hexachlorocyclopentadiene		77-47-4	8270D	ND		840	ug/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: Conestoga-Rovers & Associates	Laboratory ID: OI24004-002
Description: SO-092313-EB-002	Matrix: Solid
Date Sampled: 09/23/2013 1620	% Solids: 97.5 09/24/2013 2025
Date Received: 09/24/2013	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	1	09/25/2013 1721	RBH	09/24/2013 1816	30120		
Parameter		CAS Number		Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane		67-72-1		8270D	ND		330	ug/kg	1
Indeno(1,2,3-c,d)pyrene		193-39-5		8270D	ND		330	ug/kg	1
Isophorone		78-59-1		8270D	ND		330	ug/kg	1
2-Methylnaphthalene		91-57-6		8270D	ND		330	ug/kg	1
2-Methylphenol		95-48-7		8270D	ND		330	ug/kg	1
3 & 4-Methylphenol		106-44-5		8270D	ND		680	ug/kg	1
N-Nitrosodi-n-propylamine		621-64-7		8270D	ND		330	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)		86-30-6		8270D	ND		330	ug/kg	1
Naphthalene		91-20-3		8270D	ND		330	ug/kg	1
2-Nitroaniline		88-74-4		8270D	ND		330	ug/kg	1
3-Nitroaniline		99-09-2		8270D	ND		330	ug/kg	1
4-Nitroaniline		100-01-6		8270D	ND		330	ug/kg	1
Nitrobenzene		98-95-3		8270D	ND		330	ug/kg	1
2-Nitrophenol		88-75-5		8270D	ND		330	ug/kg	1
4-Nitrophenol		100-02-7		8270D	ND		840	ug/kg	1
Pentachlorophenol		87-86-5		8270D	ND		840	ug/kg	1
Phenanthrene		85-01-8		8270D	ND		330	ug/kg	1
Phenol		108-95-2		8270D	ND		330	ug/kg	1
Pyrene		129-00-0		8270D	ND		330	ug/kg	1
2,4,5-Trichlorophenol		95-95-4		8270D	ND		330	ug/kg	1
2,4,6-Trichlorophenol		88-06-2		8270D	ND		330	ug/kg	1
Surrogate	Q	Run 1 % Recovery		Acceptance Limits					
2,4,6-Tribromophenol		109		30-117					
2-Fluorobiphenyl		77		33-102					
2-Fluorophenol		71		28-104					
Nitrobenzene-d5		59		22-109					
Phenol-d5		74		27-103					
Terphenyl-d14		91		41-120					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Herbicides by GC

Client: Conestoga-Rovers & Associates Description: SO-092313-EB-002 Date Sampled: 09/23/2013 1620 Date Received: 09/24/2013				Laboratory ID: OI24004-002 Matrix: Solid % Solids: 97.5 09/24/2013 2025			
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Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8151A	8151A	1	09/26/2013 2025	AMY	09/24/2013	854 30128
Parameter		CAS Number		Analytical Method	Result	Q	PQL
2,4-D		94-75-7		8151A	ND		41
2,4,5-T		93-76-5		8151A	ND		10
2,4,5-TP (Silvex)		93-72-1		8151A	ND		10
Surrogate		Run 1 Q	% Recovery	Acceptance Limits			
DCAA		72		44-114			

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

P = The RPD between two GC columns exceeds 4G

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: Conestoga-Rovers & Associates

Laboratory ID: OI24004-002

Description: SO-092313-EB-002

Matrix: Solid

Date Sampled: 09/23/2013 1620

% Solids: 97.5 09/24/2013 2025

Date Received: 09/24/2013

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8082A	1	09/27/2013 1905	AMY	09/25/2013 1026	30162

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		17	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		17	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		17	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		17	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		17	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		17	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		17	ug/kg	1

Surrogate	Q	Run 1	Acceptance	Limits	Run
		% Recovery			
Decachlorobiphenyl	88		41-132		
Tetrachloro-m-xylene	79		35-106		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: Conestoga-Rovers & Associates Description: SO-092313-EB-002 Date Sampled: 09/23/2013 1620 Date Received: 09/24/2013				Laboratory ID: OI24004-002 Matrix: Solid % Solids: 97.5 09/24/2013 2025			
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Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	09/26/2013 1300	PMS	09/25/2013	1026 30163

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.7	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.7	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.7	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.7	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.7	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.7	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.7	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.7	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.7	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.7	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.7	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.7	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.7	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.7	ug/kg	1
Endrin	72-20-8	8081B	ND		1.7	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.7	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.7	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.7	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.7	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		6.8	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		84	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		83	57-110
Tetrachloro-m-xylene		80	37-91

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: Conestoga-Rovers & Associates

Laboratory ID: OI24004-002

Description: SO-092313-EB-002

Matrix: Solid

Date Sampled: 09/23/2013 1620

% Solids: 97.5 09/24/2013 2025

Date Received: 09/24/2013

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	09/26/2013 1221	COH	09/26/2013 1044	30274
1	3050B	6010C	1	09/24/2013 2232	CDF	09/24/2013 1027	30044
2	3050B	6010C	10	09/25/2013 1405	CDF	09/24/2013 1027	30044
3	3050B	6010C	20	09/25/2013 2318	CDF	09/24/2013 1027	30044

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
							1 2 3
Aluminum	7429-90-5	6010C	530		9.9	mg/kg	1
Antimony	7440-36-0	6010C	ND		0.49	mg/kg	1
Arsenic	7440-38-2	6010C	4.8		0.49	mg/kg	1
Barium	7440-39-3	6010C	5.0		1.3	mg/kg	1
Beryllium	7440-41-7	6010C	ND		0.20	mg/kg	1
Cadmium	7440-43-9	6010C	ND		0.099	mg/kg	1
Calcium	7440-70-2	6010C	250000		4900	mg/kg	3
Chromium	7440-47-3	6010C	3.7		0.25	mg/kg	1
Cobalt	7440-48-4	6010C	ND		1.3	mg/kg	1
Copper	7440-50-8	6010C	6.9		0.25	mg/kg	1
Iron	7439-89-6	6010C	8500		4.9	mg/kg	1
Lead	7439-92-1	6010C	ND		0.49	mg/kg	1
Magnesium	7439-95-4	6010C	160000		2500	mg/kg	2
Manganese	7439-96-5	6010C	280		0.74	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.074	mg/kg	1
Nickel	7440-02-0	6010C	2.7		2.0	mg/kg	1
Potassium	7440-09-7	6010C	250		250	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.49	mg/kg	1
Silver	7440-22-4	6010C	ND		0.25	mg/kg	1
Sodium	7440-23-5	6010C	ND		250	mg/kg	1
Thallium	7440-28-0	6010C	ND		2.5	mg/kg	1
Vanadium	7440-62-2	6010C	6.9		2.5	mg/kg	1
Zinc	7440-66-6	6010C	13		2.5	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Inorganic non-metals - MB

Sample ID: OQ30174-001

Batch: 30174

Analytical Method: 9012B

Matrix: Solid

Prep Method: 9012B

Prep Date: 09/26/2013 931

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Cyanide - Total	ND		1	0.50	mg/kg	09/27/2013 1230

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: OQ30174-002

Batch: 30174

Analytical Method: 9012B

Matrix: Solid

Prep Method: 9012B

Prep Date: 09/26/2013 9:31

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Cyanide - Total	5.0	4.8		1	95	90-110	09/27/2013 12:31

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovered is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCSD

Sample ID: OQ30174-003

Batch: 30174

Analytical Method: 9012B

Matrix: Solid

Prep Method: 9012B

Prep Date: 09/26/2013 931

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Cyanide - Total	5.0	5.1		1	101	5.9	90-110	20	09/27/2013 1232

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - Duplicate

Sample ID: OI24004-002DU

Batch: 30174

Analytical Method: 9012B

Matrix: Solid

Prep Method: 9012B

Prep Date: 09/26/2013 931

Parameter	Sample Amount (mg/kg)	Result (mg/kg)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Cyanide - Total	ND	ND		1	0.00	20	09/27/2013 1241

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: OI24004-001MS

Batch: 30174

Analytical Method: 9012B

Matrix: Solid

Prep Method: 9012B

Prep Date: 09/26/2013 931

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Cyanide - Total	ND	5.5	5.8		1	106	70-130	09/27/2013 1235

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: OI24004-001MD	Matrix: Solid									
Batch: 30174	Prep Method: 9012B									
Analytical Method: 9012B	Prep Date: 09/26/2013 9:31									
Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Cyanide - Total	ND	5.5	5.4	1	100		6.0	70-130	20	09/27/2013 12:36

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ30082-001

Batch: 30082

Analytical Method: 8260B

Matrix: Solid

Prep Method: 5035

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND	1		20	ug/kg	09/24/2013 1137
Benzene	ND	1		5.0	ug/kg	09/24/2013 1137
Bromodichloromethane	ND	1		5.0	ug/kg	09/24/2013 1137
Bromoform	ND	1		5.0	ug/kg	09/24/2013 1137
Bromomethane (Methyl bromide)	ND	1		5.0	ug/kg	09/24/2013 1137
2-Butanone (MEK)	ND	1		10	ug/kg	09/24/2013 1137
Carbon disulfide	ND	1		5.0	ug/kg	09/24/2013 1137
Carbon tetrachloride	ND	1		5.0	ug/kg	09/24/2013 1137
Chlorobenzene	ND	1		5.0	ug/kg	09/24/2013 1137
Chloroethane	ND	1		5.0	ug/kg	09/24/2013 1137
Chloroform	ND	1		5.0	ug/kg	09/24/2013 1137
Chloromethane (Methyl chloride)	ND	1		5.0	ug/kg	09/24/2013 1137
Cyclohexane	ND	1		5.0	ug/kg	09/24/2013 1137
1,2-Dibromo-3-chloropropane (DBCP)	ND	1		5.0	ug/kg	09/24/2013 1137
Dibromochloromethane	ND	1		5.0	ug/kg	09/24/2013 1137
1,2-Dibromoethane (EDB)	ND	1		5.0	ug/kg	09/24/2013 1137
1,4-Dichlorobenzene	ND	1		5.0	ug/kg	09/24/2013 1137
1,3-Dichlorobenzene	ND	1		5.0	ug/kg	09/24/2013 1137
1,2-Dichlorobenzene	ND	1		5.0	ug/kg	09/24/2013 1137
Dichlorodifluoromethane	ND	1		5.0	ug/kg	09/24/2013 1137
1,2-Dichloroethane	ND	1		5.0	ug/kg	09/24/2013 1137
1,1-Dichloroethane	ND	1		5.0	ug/kg	09/24/2013 1137
trans-1,2-Dichloroethene	ND	1		5.0	ug/kg	09/24/2013 1137
cis-1,2-Dichloroethene	ND	1		5.0	ug/kg	09/24/2013 1137
1,1-Dichloroethene	ND	1		5.0	ug/kg	09/24/2013 1137
1,2-Dichloropropane	ND	1		5.0	ug/kg	09/24/2013 1137
trans-1,3-Dichloropropene	ND	1		5.0	ug/kg	09/24/2013 1137
cis-1,3-Dichloropropene	ND	1		5.0	ug/kg	09/24/2013 1137
Ethylbenzene	ND	1		5.0	ug/kg	09/24/2013 1137
2-Hexanone	ND	1		10	ug/kg	09/24/2013 1137
Isopropylbenzene	ND	1		5.0	ug/kg	09/24/2013 1137
Methyl acetate	ND	1		5.0	ug/kg	09/24/2013 1137
Methyl tertiary butyl ether (MTBE)	ND	1		5.0	ug/kg	09/24/2013 1137
4-Methyl-2-pentanone	ND	1		10	ug/kg	09/24/2013 1137
Methylcyclohexane	ND	1		5.0	ug/kg	09/24/2013 1137
Methylene chloride	ND	1		5.0	ug/kg	09/24/2013 1137
Styrene	ND	1		5.0	ug/kg	09/24/2013 1137
1,1,2,2-Tetrachloroethane	ND	1		5.0	ug/kg	09/24/2013 1137
Tetrachloroethene	ND	1		5.0	ug/kg	09/24/2013 1137
Toluene	ND	1		5.0	ug/kg	09/24/2013 1137
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1		5.0	ug/kg	09/24/2013 1137
1,2,4-Trichlorobenzene	ND	1		5.0	ug/kg	09/24/2013 1137
1,1,2-Trichloroethane	ND	1		5.0	ug/kg	09/24/2013 1137
1,1,1-Trichloroethane	ND	1		5.0	ug/kg	09/24/2013 1137

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ30082-001

Batch: 30082

Analytical Method: 8260B

Matrix: Solid

Prep Method: 5035

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	5.0	ug/kg	09/24/2013 1137
Trichlorofluoromethane	ND		1	5.0	ug/kg	09/24/2013 1137
Vinyl chloride	ND		1	5.0	ug/kg	09/24/2013 1137
Xylenes (total)	ND		1	5.0	ug/kg	09/24/2013 1137
Surrogate	Q	% Rec	Acceptance Limit			
Bromofluorobenzene	95		47-138			
1,2-Dichloroethane-d4	111		53-142			
Toluene-d8	112		68-124			

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ30082-002

Batch: 30082

Analytical Method: 8260B

Matrix: Solid

Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	100		1	104	60-140	09/24/2013 1002
Benzene	50	49		1	98	69-123	09/24/2013 1002
Bromodichloromethane	50	47		1	94	69-121	09/24/2013 1002
Bromoform	50	44		1	88	61-119	09/24/2013 1002
Bromomethane (Methyl bromide)	50	46		1	93	10-168	09/24/2013 1002
2-Butanone (MEK)	100	110		1	114	57-148	09/24/2013 1002
Carbon disulfide	50	50		1	100	58-122	09/24/2013 1002
Carbon tetrachloride	50	49		1	97	58-136	09/24/2013 1002
Chlorobenzene	50	43		1	86	59-129	09/24/2013 1002
Chloroethane	50	46		1	92	42-163	09/24/2013 1002
Chloroform	50	47		1	94	71-125	09/24/2013 1002
Chloromethane (Methyl chloride)	50	44		1	89	34-134	09/24/2013 1002
Cyclohexane	50	50		1	99	53-139	09/24/2013 1002
1,2-Dibromo-3-chloropropane (DBCP)	50	46		1	92	55-125	09/24/2013 1002
Dibromochloromethane	50	42		1	85	66-119	09/24/2013 1002
1,2-Dibromoethane (EDB)	50	45		1	89	74-124	09/24/2013 1002
1,4-Dichlorobenzene	50	44		1	88	52-133	09/24/2013 1002
1,3-Dichlorobenzene	50	43		1	86	51-134	09/24/2013 1002
1,2-Dichlorobenzene	50	41		1	83	57-131	09/24/2013 1002
Dichlorodifluoromethane	50	36		1	72	10-157	09/24/2013 1002
1,2-Dichloroethane	50	50		1	99	67-129	09/24/2013 1002
1,1-Dichloroethane	50	47		1	94	71-127	09/24/2013 1002
trans-1,2-Dichloroethene	50	48		1	96	68-131	09/24/2013 1002
cis-1,2-Dichloroethene	50	48		1	96	70-122	09/24/2013 1002
1,1-Dichloroethene	50	48		1	96	69-138	09/24/2013 1002
1,2-Dichloropropane	50	48		1	96	72-124	09/24/2013 1002
trans-1,3-Dichloropropene	50	44		1	88	70-124	09/24/2013 1002
cis-1,3-Dichloropropene	50	50		1	101	70-126	09/24/2013 1002
Ethylbenzene	50	45		1	90	59-128	09/24/2013 1002
2-Hexanone	100	110		1	107	54-137	09/24/2013 1002
Isopropylbenzene	50	46		1	92	50-136	09/24/2013 1002
Methyl acetate	50	52		1	104	59-137	09/24/2013 1002
Methyl tertiary butyl ether (MTBE)	50	50		1	101	70-130	09/24/2013 1002
4-Methyl-2-pantanone	100	120		1	117	60-134	09/24/2013 1002
Methylcyclohexane	50	50		1	101	41-144	09/24/2013 1002
Methylene chloride	50	45		1	90	70-130	09/24/2013 1002
Styrene	50	44		1	88	54-136	09/24/2013 1002
1,1,2,2-Tetrachloroethane	50	47		1	94	69-132	09/24/2013 1002
Tetrachloroethene	50	43		1	87	45-150	09/24/2013 1002
Toluene	50	49		1	98	61-129	09/24/2013 1002
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	46		1	91	49-136	09/24/2013 1002
1,2,4-Trichlorobenzene	50	41		1	82	34-145	09/24/2013 1002
1,1,2-Trichloroethane	50	45		1	89	55-128	09/24/2013 1002
1,1,1-Trichloroethane	50	50		1	100	63-128	09/24/2013 1002

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS + LCS

Sample ID: OQ30082-002

Batch: 30082

Analytical Method: 8260B

Matrix: Solid

Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	49		1	97	62-126	09/24/2013 1002
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103			47-138		
1,2-Dichloroethane-d4		106			53-142		
Toluene-d8		117			68-124		

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ30082-003

Batch: 30082

Analytical Method: 8260B

Matrix: Solid

Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	94		1	94	11	60-140	20	09/24/2013 1026
Benzene	50	46		1	92	6.3	69-123	20	09/24/2013 1026
Bromodichloromethane	50	43		1	87	7.6	69-121	20	09/24/2013 1026
Bromoform	50	44		1	88	0.42	61-119	20	09/24/2013 1026
Bromomethane (Methyl bromide)	50	42		1	84	10	10-168	20	09/24/2013 1026
2-Butanone (MEK)	100	100		1	101	12	57-148	20	09/24/2013 1026
Carbon disulfide	50	47		1	94	6.4	58-122	20	09/24/2013 1026
Carbon tetrachloride	50	46		1	91	6.5	58-136	20	09/24/2013 1026
Chlorobenzene	50	41		1	82	4.1	59-129	20	09/24/2013 1026
Chloroethane	50	43		1	86	7.4	42-163	20	09/24/2013 1026
Chloroform	50	44		1	88	6.2	71-125	20	09/24/2013 1026
Chloromethane (Methyl chloride)	50	42		1	83	6.0	34-134	20	09/24/2013 1026
Cyclohexane	50	48		1	97	2.3	53-139	20	09/24/2013 1026
1,2-Dibromo-3-chloropropane (DBCP)	50	41		1	82	12	55-125	20	09/24/2013 1026
Dibromochloromethane	50	41		1	82	3.0	66-119	20	09/24/2013 1026
1,2-Dibromoethane (EDB)	50	45		1	89	0.27	74-124	20	09/24/2013 1026
1,4-Dichlorobenzene	50	42		1	83	4.8	52-133	20	09/24/2013 1026
1,3-Dichlorobenzene	50	41		1	83	4.2	51-134	20	09/24/2013 1026
1,2-Dichlorobenzene	50	39		1	78	5.5	57-131	20	09/24/2013 1026
Dichlorodifluoromethane	50	35		1	69	4.1	10-157	20	09/24/2013 1026
1,2-Dichloroethane	50	46		1	92	8.2	67-129	20	09/24/2013 1026
1,1-Dichloroethane	50	45		1	89	5.2	71-127	20	09/24/2013 1026
trans-1,2-Dichloroethene	50	46		1	91	4.5	68-131	20	09/24/2013 1026
cis-1,2-Dichloroethene	50	46		1	92	4.2	70-122	20	09/24/2013 1026
1,1-Dichloroethene	50	44		1	88	8.3	69-138	20	09/24/2013 1026
1,2-Dichloropropane	50	44		1	89	7.7	72-124	20	09/24/2013 1026
trans-1,3-Dichloropropene	50	42		1	84	4.4	70-124	20	09/24/2013 1026
cis-1,3-Dichloropropene	50	47		1	95	6.2	70-126	20	09/24/2013 1026
Ethylbenzene	50	44		1	88	2.7	59-128	20	09/24/2013 1026
2-Hexanone	100	100		1	104	2.3	54-137	20	09/24/2013 1026
Isopropylbenzene	50	46		1	93	0.88	50-136	20	09/24/2013 1026
Methyl acetate	50	49		1	98	5.2	59-137	20	09/24/2013 1026
Methyl tertiary butyl ether (MTBE)	50	48		1	96	5.3	70-130	20	09/24/2013 1026
4-Methyl-2-pentanone	100	110		1	107	9.6	60-134	20	09/24/2013 1026
Methylcyclohexane	50	48		1	97	3.7	41-144	20	09/24/2013 1026
Methylene chloride	50	41		1	83	7.9	70-130	20	09/24/2013 1026
Styrene	50	43		1	87	0.97	54-136	20	09/24/2013 1026
1,1,2,2-Tetrachloroethane	50	42		1	84	11	69-132	20	09/24/2013 1026
Tetrachloroethene	50	43		1	87	0.26	45-150	20	09/24/2013 1026
Toluene	50	47		1	94	3.8	61-129	20	09/24/2013 1026
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	42		1	85	7.1	49-136	20	09/24/2013 1026
1,2,4-Trichlorobenzene	50	37		1	75	9.4	34-145	20	09/24/2013 1026
1,1,2-Trichloroethane	50	44		1	88	1.6	55-128	20	09/24/2013 1026
1,1,1-Trichloroethane	50	45		1	91	9.9	63-128	20	09/24/2013 1026

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS | LCSD

Sample ID: OQ30082-003

Batch: 30082

Analytical Method: 8260B

Matrix: Solid

Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	46		1	93	4.4	62-126	20	09/24/2013 1026
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		99	47-138						
1,2-Dichloroethane-d4		103	53-142						
Toluene-d8		112	68-124						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: OQ30120-001

Batch: 30120

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/24/2013 1816

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1'-Biphenyl	ND		1	330	ug/kg	09/25/2013 1415
2,4,5-Trichlorophenol	ND		1	330	ug/kg	09/25/2013 1415
2,4,6-Trichlorophenol	ND		1	330	ug/kg	09/25/2013 1415
2,4-Dichlorophenol	ND		1	330	ug/kg	09/25/2013 1415
2,4-Dimethylphenol	ND		1	330	ug/kg	09/25/2013 1415
2,4-Dinitrophenol	ND		1	830	ug/kg	09/25/2013 1415
2,4-Dinitrotoluene	ND		1	330	ug/kg	09/25/2013 1415
2,6-Dinitrotoluene	ND		1	330	ug/kg	09/25/2013 1415
2-Chloronaphthalene	ND		1	330	ug/kg	09/25/2013 1415
2-Chlorophenol	ND		1	330	ug/kg	09/25/2013 1415
2-Methylnaphthalene	ND		1	330	ug/kg	09/25/2013 1415
2-Methylphenol	ND		1	330	ug/kg	09/25/2013 1415
2-Nitroaniline	ND		1	330	ug/kg	09/25/2013 1415
2-Nitrophenol	ND		1	330	ug/kg	09/25/2013 1415
3 & 4-Methylphenol	ND		1	670	ug/kg	09/25/2013 1415
3,3'-Dichlorobenzidine	ND		1	830	ug/kg	09/25/2013 1415
3-Nitroaniline	ND		1	330	ug/kg	09/25/2013 1415
4,6-Dinitro-2-methylphenol	ND		1	830	ug/kg	09/25/2013 1415
4-Bromophenyl phenyl ether	ND		1	330	ug/kg	09/25/2013 1415
4-Chloro-3-methyl phenol	ND		1	330	ug/kg	09/25/2013 1415
4-Chloroaniline	ND		1	330	ug/kg	09/25/2013 1415
4-Chlorophenyl phenyl ether	ND		1	330	ug/kg	09/25/2013 1415
4-Nitroaniline	ND		1	330	ug/kg	09/25/2013 1415
4-Nitrophenol	ND		1	830	ug/kg	09/25/2013 1415
Acenaphthene	ND		1	330	ug/kg	09/25/2013 1415
Acenaphthylene	ND		1	330	ug/kg	09/25/2013 1415
Acetophenone	ND		1	330	ug/kg	09/25/2013 1415
Anthracene	ND		1	330	ug/kg	09/25/2013 1415
Atrazine	ND		1	330	ug/kg	09/25/2013 1415
Benzaldehyde	ND		1	830	ug/kg	09/25/2013 1415
Benzo(a)anthracene	ND		1	330	ug/kg	09/25/2013 1415
Benzo(a)pyrene	ND		1	330	ug/kg	09/25/2013 1415
Benzo(b)fluoranthene	ND		1	330	ug/kg	09/25/2013 1415
Benzo(g,h,i)perylene	ND		1	330	ug/kg	09/25/2013 1415
Benzo(k)fluoranthene	ND		1	330	ug/kg	09/25/2013 1415
bis(2-Chloroethoxy)methane	ND		1	330	ug/kg	09/25/2013 1415
bis(2-Chloroethyl)ether	ND		1	330	ug/kg	09/25/2013 1415
bis(2-Chloroisopropyl)ether	ND		1	330	ug/kg	09/25/2013 1415
bis(2-Ethylhexyl)phthalate	ND		1	330	ug/kg	09/25/2013 1415
Butyl benzyl phthalate	ND		1	330	ug/kg	09/25/2013 1415
Caprolactam	ND		1	830	ug/kg	09/25/2013 1415
Carbazole	ND		1	330	ug/kg	09/25/2013 1415
Chrysene	ND		1	330	ug/kg	09/25/2013 1415
Di-n-butyl phthalate	ND		1	330	ug/kg	09/25/2013 1415

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: OQ30120-001

Batch: 30120

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/24/2011 1816

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Di-n-octylphthalate	ND		1	330	ug/kg	09/25/2013 1415
Dibenzo(a,h)anthracene	ND		1	330	ug/kg	09/25/2013 1415
Dibenzofuran	ND		1	330	ug/kg	09/25/2013 1415
Diethylphthalate	ND		1	330	ug/kg	09/25/2013 1415
Dimethyl phthalate	ND		1	330	ug/kg	09/25/2013 1415
Fluoranthene	ND		1	330	ug/kg	09/25/2013 1415
Fluorene	ND		1	330	ug/kg	09/25/2013 1415
Hexachlorobenzene	ND		1	330	ug/kg	09/25/2013 1415
Hexachlorobutadiene	ND		1	330	ug/kg	09/25/2013 1415
Hexachlorocyclopentadiene	ND		1	830	ug/kg	09/25/2013 1415
Hexachloroethane	ND		1	330	ug/kg	09/25/2013 1415
Indeno(1,2,3-c,d)pyrene	ND		1	330	ug/kg	09/25/2013 1415
Isophorone	ND		1	330	ug/kg	09/25/2013 1415
N-Nitrosodi-n-propylamine	ND		1	330	ug/kg	09/25/2013 1415
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	330	ug/kg	09/25/2013 1415
Naphthalene	ND		1	330	ug/kg	09/25/2013 1415
Nitrobenzene	ND		1	330	ug/kg	09/25/2013 1415
Pentachlorophenol	ND		1	830	ug/kg	09/25/2013 1415
Phenanthrene	ND		1	330	ug/kg	09/25/2013 1415
Phenol	ND		1	330	ug/kg	09/25/2013 1415
Pyrene	ND		1	330	ug/kg	09/25/2013 1415
Surrogate	Q	% Rec	Acceptance Limit			
2,4,6-Tribromophenol	109		30-117			
2-Fluorobiphenyl	89		33-102			
2-Fluorophenol	83		28-104			
Nitrobenzene-d5	70		22-109			
Phenol-d5	83		27-103			
Terphenyl-d14	94		41-120			

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is < 50% of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: OQ30120-002

Batch: 30120

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/24/2013 1816

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1'-Biphenyl	3300	2800	1	84	49-110	09/25/2013 1438	
2,4,5-Trichlorophenol	3300	3000	1	90	46-122	09/25/2013 1438	
2,4,6-Trichlorophenol	3300	3100	1	92	38-115	09/25/2013 1438	
2,4-Dichlorophenol	3300	3000	1	89	41-113	09/25/2013 1438	
2,4-Dimethylphenol	3300	2800	1	84	33-123	09/25/2013 1438	
2,4-Dinitrophenol	17000	13000	1	79	45-127	09/25/2013 1438	
2,4-Dinitrotoluene	6700	6200	1	94	48-124	09/25/2013 1438	
2,6-Dinitrotoluene	6700	6300	1	94	47-125	09/25/2013 1438	
2-Chloronaphthalene	3300	2400	1	71	31-127	09/25/2013 1438	
2-Chlorophenol	3300	2700	1	82	37-106	09/25/2013 1438	
2-Methylnaphthalene	3300	2800	1	84	40-106	09/25/2013 1438	
2-Methylphenol	3300	2700	1	82	32-107	09/25/2013 1438	
2-Nitroaniline	6700	6000	1	91	45-123	09/25/2013 1438	
2-Nitrophenol	6700	5500	1	82	35-108	09/25/2013 1438	
3 & 4-Methylphenol	6700	5300	1	80	39-108	09/25/2013 1438	
3,3'-Dichlorobenzidine	6700	5900	1	88	46-113	09/25/2013 1438	
3-Nitroaniline	6700	5500	1	82	24-127	09/25/2013 1438	
4,6-Dinitro-2-methylphenol	17000	16000	1	94	40-130	09/25/2013 1438	
4-Bromophenyl phenyl ether	3300	3100	1	92	46-118	09/25/2013 1438	
4-Chloro-3-methyl phenol	3300	3000	1	89	49-118	09/25/2013 1438	
4-Chloroaniline	3300	3900	1	117	10-125	09/25/2013 1438	
4-Chlorophenyl phenyl ether	3300	3000	1	89	47-116	09/25/2013 1438	
4-Nitroaniline	6700	7000	1	105	48-127	09/25/2013 1438	
4-Nitrophenol	17000	13000	1	77	18-154	09/25/2013 1438	
Acenaphthene	3300	2700	1	82	46-114	09/25/2013 1438	
Acenaphthylene	3300	3600	1	107	44-122	09/25/2013 1438	
Acetophenone	3300	2600	1	79	48-111	09/25/2013 1438	
Anthracene	3300	2900	1	88	50-119	09/25/2013 1438	
Atrazine	3300	2700	1	81	48-116	09/25/2013 1438	
Benzaldehyde	3300	2400	1	73	34-99	09/25/2013 1438	
Benzo(a)anthracene	3300	3100	1	94	47-121	09/25/2013 1438	
Benzo(a)pyrene	3300	3600	1	108	55-134	09/25/2013 1438	
Benzo(b)fluoranthene	3300	3400	1	102	28-139	09/25/2013 1438	
Benzo(g,h,i)perylene	3300	3600	1	108	36-125	09/25/2013 1438	
Benzo(k)fluoranthene	3300	3300	1	99	47-130	09/25/2013 1438	
bis(2-Chloroethoxy)methane	3300	2600	1	77	39-108	09/25/2013 1438	
bis(2-Chloroethyl)ether	6700	4400	1	66	32-105	09/25/2013 1438	
bis(2-Chloroisopropyl)ether	3300	2200	1	67	31-102	09/25/2013 1438	
bis(2-Ethylhexyl)phthalate	3300	3300	1	99	45-128	09/25/2013 1438	
Butyl benzyl phthalate	3300	3200	1	97	46-128	09/25/2013 1438	
Caprolactam	3300	4000	1	120	43-121	09/25/2013 1438	
Carbazole	3300	3500	1	105	47-128	09/25/2013 1438	
Chrysene	3300	3000	1	91	45-126	09/25/2013 1438	
Di-n-butyl phthalate	3300	2900	1	88	51-129	09/25/2013 1438	

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/ MS - LCS

Sample ID: OQ30120-002

Batch: 30120

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/24/2011 1816

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Di-n-octylphthalate	3300	3200	1	95	49-142	09/25/2013 1438	
Dibenzo(a,h)anthracene	3300	3200	1	97	45-122	09/25/2013 1438	
Dibenzofuran	3300	2900	1	87	45-112	09/25/2013 1438	
Diethylphthalate	3300	2900	1	86	49-123	09/25/2013 1438	
Dimethyl phthalate	3300	3000	1	90	48-120	09/25/2013 1438	
Fluoranthene	3300	3200	1	96	50-123	09/25/2013 1438	
Fluorene	3300	2800	1	85	48-117	09/25/2013 1438	
Hexachlorobenzene	3300	2900	1	88	44-122	09/25/2013 1438	
Hexachlorobutadiene	3300	2900	1	87	33-103	09/25/2013 1438	
Hexachlorocyclopentadiene	17000	10000	1	61	18-121	09/25/2013 1438	
Hexachloroethane	3300	2000	1	61	30-96	09/25/2013 1438	
Indeno(1,2,3-c,d)pyrene	3300	3400	1	102	45-123	09/25/2013 1438	
Isophorone	3300	2700	1	80	41-113	09/25/2013 1438	
N-Nitrosodi-n-propylamine	3300	2500	1	76	32-115	09/25/2013 1438	
N-Nitrosodiphenylamine (Diphenylamine)	3300	3100	1	94	53-150	09/25/2013 1438	
Naphthalene	3300	2500	1	76	36-110	09/25/2013 1438	
Nitrobenzene	3300	2400	1	71	33-114	09/25/2013 1438	
Pentachlorophenol	17000	14000	1	84	27-138	09/25/2013 1438	
Phenanthrene	3300	2800	1	85	49-117	09/25/2013 1438	
Phenol	3300	2600	1	79	36-108	09/25/2013 1438	
Pyrene	3300	3200	1	97	47-119	09/25/2013 1438	
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol	105	30-117					
2-Fluorobiphenyl	87	33-102					
2-Fluorophenol	84	28-104					
Nitrobenzene-d5	74	22-109					
Phenol-d5	81	27-103					
Terphenyl-d14	100	41-120					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - MB

Sample ID: OQ30128-001

Batch: 30128

Analytical Method: 8151A

Matrix: Solid

Prep Method: 8151A

Prep Date: 09/24/2013 854

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
2,4,5-T	ND		1	10	ug/kg	09/26/2013 1916
2,4,5-TP (Silvex)	ND		1	10	ug/kg	09/26/2013 1916
2,4-D	ND		1	40	ug/kg	09/26/2013 1916
Surrogate	Q	% Rec		Acceptance Limit		
DCAA		81		44-114		

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - LCS

Sample ID: OQ30128-002

Batch: 30128

Analytical Method: 8151A

Matrix: Solid

Prep Method: 8151A

Prep Date: 09/24/2013 854

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-T	200	190		1	93	70-130	09/26/2013 1939
2,4,5-TP (Silvex)	200	220		1	108	58-130	09/26/2013 1939
2,4-D	200	180		1	91	70-130	09/26/2013 1939
Surrogate	Q % Rec	Acceptance Limit					
DCAA	87	44-114					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MB

Sample ID: OQ30162-001

Batch: 30162

Analytical Method: 8082A

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/25/2013 1026

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aroclor 1016	ND		1	17	ug/kg	09/26/2013 1256
Aroclor 1221	ND		1	17	ug/kg	09/26/2013 1256
Aroclor 1232	ND		1	17	ug/kg	09/26/2013 1256
Aroclor 1242	ND		1	17	ug/kg	09/26/2013 1256
Aroclor 1248	ND		1	17	ug/kg	09/26/2013 1256
Aroclor 1254	ND		1	17	ug/kg	09/26/2013 1256
Aroclor 1260	ND		1	17	ug/kg	09/26/2013 1256
Surrogate		Q	% Rec	Acceptance Limit		
Decachlorobiphenyl		83		41-132		
Tetrachloro-m-xylene		76		35-106		

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - LCS

Sample ID: OQ30162-002

Batch: 30162

Analytical Method: 8082A

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/25/2011 1026

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	83	65		1	78	70-130	09/26/2013 1309
Aroclor 1260	83	81		1	98	70-130	09/26/2013 1309
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		82	41-132				
Tetrachloro-m-xylene		75	35-106				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: OQ30163-001

Batch: 30163

Analytical Method: 8081B

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/25/2013 1026

Parameter	Result	Q	DII	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	ug/kg	09/26/2013 1216
4,4'-DDE	ND		1	1.7	ug/kg	09/26/2013 1216
4,4'-DDT	ND		1	1.7	ug/kg	09/26/2013 1216
Aldrin	ND		1	1.7	ug/kg	09/26/2013 1216
alpha-BHC	ND		1	1.7	ug/kg	09/26/2013 1216
alpha-Chlordane	ND		1	1.7	ug/kg	09/26/2013 1216
beta-BHC	ND		1	1.7	ug/kg	09/26/2013 1216
delta-BHC	ND		1	1.7	ug/kg	09/26/2013 1216
Dieldrin	ND		1	1.7	ug/kg	09/26/2013 1216
Endosulfan I	ND		1	1.7	ug/kg	09/26/2013 1216
Endosulfan II	ND		1	1.7	ug/kg	09/26/2013 1216
Endosulfan sulfate	ND		1	1.7	ug/kg	09/26/2013 1216
Endrin	ND		1	1.7	ug/kg	09/26/2013 1216
Endrin aldehyde	ND		1	1.7	ug/kg	09/26/2013 1216
Endrin ketone	ND		1	1.7	ug/kg	09/26/2013 1216
gamma-BHC (Lindane)	ND		1	1.7	ug/kg	09/26/2013 1216
gamma-Chlordane	ND		1	1.7	ug/kg	09/26/2013 1216
Heptachlor	ND		1	1.7	ug/kg	09/26/2013 1216
Heptachlor epoxide	ND		1	1.7	ug/kg	09/26/2013 1216
Methoxychlor	ND		1	6.7	ug/kg	09/26/2013 1216
Toxaphene	ND		1	83	ug/kg	09/26/2013 1216
Surrogate	Q	% Rec	Acceptance Limit			
Decachlorobiphenyl		83	57-110			
Tetrachloro-m-xylene		78	37-91			

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - ICS

Sample ID: OQ30163-002

Batch: 30163

Analytical Method: 8081B

Matrix: Solid

Prep Method: 3550C

Prep Date: 09/25/2011 1026

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	17		1	97	70-130	09/26/2013 1231
4,4'-DDE	17	17		1	102	70-130	09/26/2013 1231
4,4'-DDT	17	20		1	120	70-130	09/26/2013 1231
Aldrin	17	16		1	95	70-130	09/26/2013 1231
alpha-BHC	17	15		1	89	70-130	09/26/2013 1231
alpha-Chlordane	17	17		1	98	70-130	09/26/2013 1231
beta-BHC	17	16		1	95	70-130	09/26/2013 1231
delta-BHC	17	17		1	98	70-130	09/26/2013 1231
Dieldrin	17	17		1	100	70-130	09/26/2013 1231
Endosulfan I	17	17		1	99	70-130	09/26/2013 1231
Endosulfan II	17	17		1	99	70-130	09/26/2013 1231
Endosulfan sulfate	17	16		1	96	70-130	09/26/2013 1231
Endrin	17	17		1	97	70-130	09/26/2013 1231
Endrin aldehyde	17	16		1	93	70-130	09/26/2013 1231
Endrin ketone	17	19		1	110	70-130	09/26/2013 1231
gamma-BHC (Lindane)	17	16		1	93	70-130	09/26/2013 1231
gamma-Chlordane	17	17		1	102	70-130	09/26/2013 1231
Heptachlor	17	16		1	92	70-130	09/26/2013 1231
Heptachlor epoxide	17	16		1	94	70-130	09/26/2013 1231
Methoxychlor	17	18		1	107	70-130	09/26/2013 1231
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl	84	57-110					
Tetrachloro-m-xylene	79	37-91					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - MB

Sample ID: OQ30044-001

Batch: 30044

Analytical Method: 6010C

Matrix: Solid

Prep Method: 3050B

Prep Date: 09/24/2013 1027

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aluminum	ND		1	10	mg/kg	09/25/2013 1309
Antimony	ND		1	0.50	mg/kg	09/24/2013 2128
Arsenic	ND		1	0.50	mg/kg	09/24/2013 2128
Barium	ND		1	1.3	mg/kg	09/24/2013 2128
Beryllium	ND		1	0.20	mg/kg	09/24/2013 2128
Cadmium	ND		1	0.10	mg/kg	09/24/2013 2128
Calcium	ND		1	250	mg/kg	09/24/2013 2128
Chromium	ND		1	0.25	mg/kg	09/24/2013 2128
Cobalt	ND		1	1.3	mg/kg	09/24/2013 2128
Copper	ND		1	0.25	mg/kg	09/24/2013 2128
Iron	ND		1	5.0	mg/kg	09/24/2013 2128
Lead	ND		1	0.50	mg/kg	09/24/2013 2128
Magnesium	ND		1	250	mg/kg	09/24/2013 2128
Manganese	ND		1	0.75	mg/kg	09/24/2013 2128
Nickel	ND		1	2.0	mg/kg	09/24/2013 2128
Potassium	ND		1	250	mg/kg	09/24/2013 2128
Selenium	ND		1	0.50	mg/kg	09/24/2013 2128
Silver	ND		1	0.25	mg/kg	09/24/2013 2128
Sodium	ND		1	250	mg/kg	09/24/2013 2128
Thallium	ND		1	2.5	mg/kg	09/24/2013 2128
Vanadium	ND		1	2.5	mg/kg	09/24/2013 2128
Zinc	ND		1	2.5	mg/kg	09/24/2013 2128

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - LCS

Sample ID: OQ30044-002

Batch: 30044

Analytical Method: 6010C

Matrix: Solid

Prep Method: 3050B

Prep Date: 09/24/2013 1027

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aluminum	1000	960	1	96	80-120	09/25/2013 2131	
Antimony	50	45	1	90	80-120	09/24/2013 2131	
Arsenic	250	230	1	90	80-120	09/24/2013 2131	
Barium	500	430	1	86	80-120	09/24/2013 2131	
Beryllium	100	95	1	95	80-120	09/24/2013 2131	
Cadmium	50	42	1	85	80-120	09/24/2013 2131	
Calcium	2000	1800	1	91	80-120	09/24/2013 2131	
Chromium	250	240	1	95	80-120	09/24/2013 2131	
Cobalt	100	96	1	96	80-120	09/24/2013 2131	
Copper	100	92	1	92	80-120	09/24/2013 2131	
Iron	1000	940	1	94	80-120	09/24/2013 2131	
Lead	250	230	1	91	80-120	09/24/2013 2131	
Magnesium	2000	1900	1	95	80-120	09/24/2013 2131	
Manganese	100	93	1	93	80-120	09/24/2013 2131	
Nickel	100	95	1	95	80-120	09/24/2013 2131	
Potassium	2000	2000	1	100	80-120	09/24/2013 2131	
Selenium	50	41	1	82	80-120	09/24/2013 2131	
Silver	250	220	1	86	80-120	09/24/2013 2131	
Sodium	2000	1900	1	97	80-120	09/24/2013 2131	
Thallium	40	37	1	92	80-120	09/24/2013 2131	
Vanadium	100	95	1	95	80-120	09/24/2013 2131	
Zinc	100	92	1	92	80-120	09/24/2013 2131	

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - LCSD

Sample ID: OQ30044-003

Batch: 30044

Analytical Method: 6010C

Matrix: Solid

Prep Method: 3050B

Prep Date: 09/24/2013 1027

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aluminum	1000	990		1	99	3.1	80-120	20	09/25/2013 1316
Antimony	50	47		1	93	3.9	80-120	20	09/24/2013 2135
Arsenic	250	230		1	94	3.5	80-120	20	09/24/2013 2135
Barium	500	440		1	88	3.0	80-120	20	09/24/2013 2135
Beryllium	100	100		1	101	5.8	80-120	20	09/24/2013 2135
Cadmium	50	44		1	88	3.8	80-120	20	09/24/2013 2135
Calcium	2000	1900		1	94	3.0	80-120	20	09/24/2013 2135
Chromium	250	250		1	99	4.8	80-120	20	09/24/2013 2135
Cobalt	100	100		1	100	3.4	80-120	20	09/24/2013 2135
Copper	100	97		1	97	4.7	80-120	20	09/24/2013 2135
Iron	1000	960		1	96	2.4	80-120	20	09/24/2013 2135
Lead	250	240		1	95	3.4	80-120	20	09/24/2013 2135
Magnesium	2000	1900		1	97	2.0	80-120	20	09/24/2013 2135
Manganese	100	97		1	97	4.3	80-120	20	09/24/2013 2135
Nickel	100	98		1	98	3.7	80-120	20	09/24/2013 2135
Potassium	2000	2000		1	101	1.3	80-120	20	09/24/2013 2135
Selenium	50	43		1	86	4.9	80-120	20	09/24/2013 2135
Silver	250	220		1	90	4.2	80-120	20	09/24/2013 2135
Sodium	2000	2000		1	99	1.9	80-120	20	09/24/2013 2135
Thallium	40	38		1	95	3.2	80-120	20	09/24/2013 2135
Vanadium	100	99		1	99	3.9	80-120	20	09/24/2013 2135
Zinc	100	95		1	95	3.4	80-120	20	09/24/2013 2135

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - MB

Sample ID: OQ30274-001

Batch: 30274

Analytical Method: 7471B

Matrix: Solid

Prep Method: 7471B

Prep Date: 09/26/2013 1044

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Mercury	ND		1	0.083	mg/kg	09/26/2013 1212

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - LCS

Sample ID: OQ30274-002

Batch: 30274

Analytical Method: 7471B

Matrix: Solid

Prep Method: 7471B

Prep Date: 09/26/2013 1044

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.83	0.79		1	95	85-115	09/26/2013 1214

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - LCSD

Sample ID: OQ30274-003

Batch: 30274

Analytical Method: 7471B

Matrix: Solid

Prep Method: 7471B

Prep Date: 09/26/2013 1044

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	0.83	0.78		1	94	1.4	85-115	20	09/26/2013 1217

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and \geq MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 11

Page 3 of 1
Replaces Date: 01/28/13
Effective Date: 04/18/13

Sample Receipt Checklist (SRC)

Client: Cores to go Cooler Inspected by/date: GCC 9/24/13 Lot #: 012460X

Means of receipt: <input type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	1. Were custody seals present on the cooler?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	2. If custody seals were present, were they intact and unbroken?
Cooler ID/temperature upon receipt <u>118 °C / -1 °C / -5 °C / +5 °C</u>		
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles		
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None		
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
4. Is the commercial courier's packing slip attached to this form?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
5. Were proper custody procedures (relinquished/received) followed?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
5a. Were samples relinquished by client to commercial courier?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
6. Were sample IDs listed?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
7. Was collection date & time listed?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
8. Were tests to be performed listed on the COC?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
9. Did all samples arrive in the proper containers for each test?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
10. Did all container label information (ID, date, time) agree with COC?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
11. Did all containers arrive in good condition (unbroken, lids on, etc.)?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
12. Was adequate sample volume available?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
14. Were any samples containers missing?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
15. Were there any excess samples not listed on COC?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
16. Were bubbles present >"pca-size" (¼" or 6mm in diameter) in any VOA vials?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
18. Were all cyanide and/or sulfide samples received at a pH >12?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
19. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
20. Were collection temperatures documented on the COC for NC samples?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?		

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H₂SO₄, HNO₃, HCl, NaOH) with the SR # (number) _____

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/phenol.

Sample labels verified by: L Date: 9/24/13

Corrective Action taken, if necessary:

Was client notified: Yes No

Did client respond: Yes No

SESI employee: _____

Date of response: _____

Comments:



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: PL-12310

PAGE 1 OF

(See Reverse Side for Instructions)

OI24004

Object No/Phase/Task Code:

Laboratory Name: Shealey Labs

Lab Location: West Columbia, SC

SSOW ID:

Object Name: HIMCO

Lab Contact:

Lab Quote No: 16354

Cooler No:

Object Location: Elkhart, IN

Carrier: FedEx

Personality Contact: Paul Wiesman

Airbill No:

ampler(s): E. Bandenburg

Date Shipped: 9-23-13

SAMPLE IDENTIFICATION

(Indicate for each sample if it may be combined in one box)

Sample 1: SO-092313-ER-001

DATE:
09/28/13

TIME:
16:15:56

Medium/Catalog
No.:

Sample ID:

Comments:

Notes:

COCs:

Method:

Specimen:

Storage:

Preservation:

Other:

Print:

Initials:

MSDS Required:

Print:

Initials:

Sample 2: SO-092313-EB-002

DATE:
10/01/13

TIME:
16:30:47

Medium/Catalog
No.:

Sample ID:

Comments:

Notes:

COCs:

Method:

Specimen:

Storage:

Preservation:

Other:

Print:

Initials:

Print:

Comments/Special Instructions:

T Required in business days (use separate COCs for different TATs):

1 Day 2 Days 3 Days 1 Week 2 Weeks Other

Total Number of Containers: 6

All Samples in Cooler must be on COC

Notes/ Special Requirements:

3-day TAT Please!

RECORDED BY:

COMPANY:

DATE:

TIME:

RECEIVED BY:

COMPANY:

DATE:

TIME:

Conner

FEDEX

09/28/13

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SOIL ANALYTICAL RESULTS SUMMARY

HIMCO DUMP
ELKHART, INDIANA

Page 1 of 4

Sample Location:**Stone (#8 Gravel)****Sample ID:****SO-092313-EB-002****Sample Date:****9/23/2013**

Parameters	Units	IDEML 2012 - Direct Contact		Stone (#8 Gravel)
		Residential	Industrial	
		a	b	
Volatile Organic Compounds				
1,1,1-Trichloroethane	mg/kg	-	-	0.0051 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	0.0051 U
1,1,2-Trichloroethane	mg/kg	-	-	0.0051 U
1,1-Dichloroethane	mg/kg	-	-	0.0051 U
1,1-Dichloroethene	mg/kg	-	-	0.0051 U
1,2,4-Trichlorobenzene	mg/kg	-	-	0.0051 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	0.0051 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.0051 U
1,2-Dichlorobenzene	mg/kg	-	-	0.0051 U
1,2-Dichloroethane	mg/kg	-	-	0.0051 U
1,2-Dichloropropane	mg/kg	-	-	0.0051 U
1,3-Dichlorobenzene	mg/kg	-	-	0.0051 U
1,4-Dichlorobenzene	mg/kg	-	-	0.0051 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	0.01 U
2-Hexanone	mg/kg	-	-	0.01 U
4-Methyl-2-pentanone (Methyl Isobutyl ketone) (MIBK)	mg/kg	-	-	0.01 U
Acetone	mg/kg	85000	100000	0.02 U
Benzene	mg/kg	15	54	0.0051 U
Bromodichloromethane	mg/kg	3.8	14	0.0051 U
Bromoform	mg/kg	870	2200	0.0051 U
Bromomethane (Methyl bromide)	mg/kg	-	-	0.0051 U
Carbon disulfide	mg/kg	740	740	0.0051 U
Carbon tetrachloride	mg/kg	8.5	30	0.0051 U
Chlorobenzene	mg/kg	410	760	0.0051 U
Chloroethane	mg/kg	-	-	0.0051 U
Chloroform (Trichloromethane)	mg/kg	-	-	0.0051 U
Chloromethane (Methyl chloride)	mg/kg	-	-	0.0051 U
cis-1,2-Dichloroethene	mg/kg	-	-	0.0051 U
cis-1,3-Dichloropropene	mg/kg	-	-	0.0051 U
Cyclohexane	mg/kg	120	120	0.0051 U
Dibromochloromethane	mg/kg	9.5	33	0.0051 U
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	0.0051 U
Ethylbenzene	mg/kg	76	270	0.0051 U
Isopropyl benzene	mg/kg	-	-	0.0051 U
Methyl acetate	mg/kg	29000	29000	0.0051 U
Methyl cyclohexane	mg/kg	-	-	0.0051 U
Methyl tert butyl ether (MTBE)	mg/kg	-	-	0.0051 U
Methylene chloride	mg/kg	150	530	0.0051 U
Styrene	mg/kg	870	870	0.0051 U
Tetrachloroethene	mg/kg	-	-	0.0051 U
Toluene	mg/kg	820	820	0.0051 U
trans-1,2-Dichloroethene	mg/kg	-	-	0.0051 U
trans-1,3-Dichloropropene	mg/kg	-	-	0.0051 U
Trichloroethene	mg/kg	-	-	0.0051 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	0.0051 U
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	0.0051 U
Vinyl chloride	mg/kg	0.84	17	0.0051 U
Xylenes (total)	mg/kg	-	-	0.0051 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	-	-	0.33 U
2,4,5-Trichlorophenol	mg/kg	-	-	0.33 U
2,4,6-Trichlorophenol	mg/kg	-	-	0.33 U
2,4-Dichlorophenol	mg/kg	-	-	0.33 U
2,4-Dimethylphenol	mg/kg	-	-	0.33 U
2,4-Dinitrophenol	mg/kg	-	-	0.84 U
2,4-Dinitrotoluene	mg/kg	-	-	0.33 U

SOIL ANALYTICAL RESULTS SUMMARY
HIMCO DUMP
ELKHART, INDIANA

Page 2 of 4

Sample Location:

Stone (#8 Gravel)

Sample ID:

SO-092313-EB-002

Sample Date:

9/23/2013

Parameters	Units	IDEML 2012 - Direct Contact	
		Residential	Industrial
2,6-Dinitrotoluene	mg/kg	-	0.33 U
2-Chloronaphthalene	mg/kg	-	0.33 U
2-Chlorophenol	mg/kg	-	0.33 U
2-Methylnaphthalene	mg/kg	-	0.33 U
2-Methylphenol	mg/kg	-	0.33 U
2-Nitroaniline	mg/kg	-	0.33 U
2-Nitrophenol	mg/kg	-	0.33 U
3,3'-Dichlorobenzidine	mg/kg	-	0.84 U
3-Nitroaniline	mg/kg	-	0.33 U
4,6-Dinitro-2-methylphenol	mg/kg	-	0.84 U
4-Bromophenyl phenyl ether	mg/kg	-	0.33 U
4-Chloro-3-methylphenol	mg/kg	-	0.33 U
4-Chloroaniline	mg/kg	-	0.33 U
4-Chlorophenyl phenyl ether	mg/kg	-	0.33 U
4-Methylphenol	mg/kg	-	0.68 U
4-Nitroaniline	mg/kg	-	0.33 U
4-Nitrophenol	mg/kg	-	0.84 U
Acenaphthene	mg/kg	4800	33000
Acenaphthylene	mg/kg	-	0.33 U
Acetophenone	mg/kg	2500	2500
Anthracene	mg/kg	24000	100000
Atrazine	mg/kg	29	75
Benzaldehyde	mg/kg	1200	1200
Benzo(a)anthracene	mg/kg	-	0.33 U
Benzo(a)pyrene	mg/kg	-	0.33 U
Benzo(b)fluoranthene	mg/kg	-	0.33 U
Benzo(g,h,i)perylene	mg/kg	-	0.33 U
Benzo(k)fluoranthene	mg/kg	-	0.33 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	0.33 U
bis(2-Chloroethoxy)methane	mg/kg	250	1800
bis(2-Chloroethyl)ether	mg/kg	2.9	10
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	0.33 U
Butyl benzylphthalate (BBP)	mg/kg	-	0.33 U
Caprolactam	mg/kg	43000	100000
Carbazole	mg/kg	-	0.33 U
Chrysene	mg/kg	210	2100
Dibenz(a,h)anthracene	mg/kg	-	0.33 U
Dibenzofuran	mg/kg	110	170
Diethyl phthalate	mg/kg	69000	100000
Dimethyl phthalate	mg/kg	-	0.33 U
Di-n-butylphthalate (DBP)	mg/kg	-	0.33 U
Di-n-octyl phthalate (DnOP)	mg/kg	-	0.33 U
Fluoranthene	mg/kg	3200	22000
Fluorene	mg/kg	3200	22000
Hexachlorobenzene	mg/kg	4.2	11
Hexachlorobutadiene	mg/kg	85	220
Hexachlorocyclopentadiene	mg/kg	520	3700
Hexachloroethane	mg/kg	60	430
Indeno(1,2,3-cd)pyrene	mg/kg	-	0.33 U
Isophorone	mg/kg	7100	18000
Naphthalene	mg/kg	50	180
Nitrobenzene	mg/kg	67	240
N-Nitrosodi-n-propylamine	mg/kg	-	0.33 U
N-Nitrosodiphenylamine	mg/kg	-	0.33 U
Pentachlorophenol	mg/kg	12	27
Phenanthrene	mg/kg	-	0.33 U
Phenol	mg/kg	25000	100000
Pyrene	mg/kg	2400	17000

SOIL ANALYTICAL RESULTS SUMMARY
HIMCO DUMP
ELKHART, INDIANA

Page 3 of 4

Sample Location:

Sample ID:

Sample Date:

Stone (#8 Gravel)

SO-092313-EB-002

9/23/2013

Parameters	Units	IDEML 2012 - Direct Contact		
		Residential	Industrial	
Metals				
Aluminum	mg/kg	100000	100000	530
Antimony	mg/kg	-	-	0.49 U
Arsenic	mg/kg	-	-	4.8
Barium	mg/kg	21000	100000	5.0
Beryllium	mg/kg	-	-	0.20 U
Cadmium	mg/kg	-	-	0.099 U
Calcium	mg/kg	-	-	250000
Chromium	mg/kg	-	-	3.7
Cobalt	mg/kg	32	300	1.3 U
Copper	mg/kg	4300	41000	6.9
Iron	mg/kg	77000	100000	8500
Lead	mg/kg	-	-	0.49 U
Magnesium	mg/kg	-	-	160000
Manganese	mg/kg	-	-	280
Mercury	mg/kg	-	-	0.074 U
Nickel	mg/kg	-	-	2.7
Potassium	mg/kg	-	-	250
Selenium	mg/kg	550	5100	0.49 U
Silver	mg/kg	550	5100	0.25 U
Sodium	mg/kg	-	-	250 U
Thallium	mg/kg	-	-	2.5 U
Vanadium	mg/kg	-	-	6.9
Zinc	mg/kg	-	-	13
Herbicides				
2,4,5-T	mg/kg	-	-	0.01 U
2,4,5-TP (Silvex)	mg/kg	-	-	0.01 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/kg	-	-	0.041 U
Pesticides				
4,4'-DDD	mg/kg	-	-	0.0017 U
4,4'-DDE	mg/kg	-	-	0.0017 U
4,4'-DDT	mg/kg	-	-	0.0017 U
Aldrin	mg/kg	0.41	1	0.0017 U
alpha-BHC	mg/kg	-	-	0.0017 U
alpha-Chlordane	mg/kg	-	-	0.0017 U
beta-BHC	mg/kg	-	-	0.0017 U
delta-BHC	mg/kg	-	-	0.0017 U
Dieldrin	mg/kg	0.42	1.1	0.0017 U
Endosulfan I	mg/kg	-	-	0.0017 U
Endosulfan II	mg/kg	-	-	0.0017 U
Endosulfan sulfate	mg/kg	-	-	0.0017 U
Endrin	mg/kg	25	180	0.0017 U
Endrin aldehyde	mg/kg	-	-	0.0017 U
Endrin ketone	mg/kg	-	-	0.0017 U
gamma-BHC (lindane)	mg/kg	-	-	0.0017 U
gamma-Chlordane	mg/kg	-	-	0.0017 U
Heptachlor	mg/kg	1.5	3.8	0.0017 U
Heptachlor epoxide	mg/kg	0.74	1.9	0.0017 U
Methoxychlor	mg/kg	430	3100	0.0068 U
Toxaphene	mg/kg	6.2	16	0.084 U
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	-	-	0.017 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	0.017 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	0.017 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	0.017 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	0.017 U

CRA 039611 (36)

SOIL ANALYTICAL RESULTS SUMMARY
HIMCO DUMP
ELKHART, INDIANA

Page 4 of 4

Sample Location:

Stone (#8 Gravel)

Sample ID:

SO-092313-EB-002

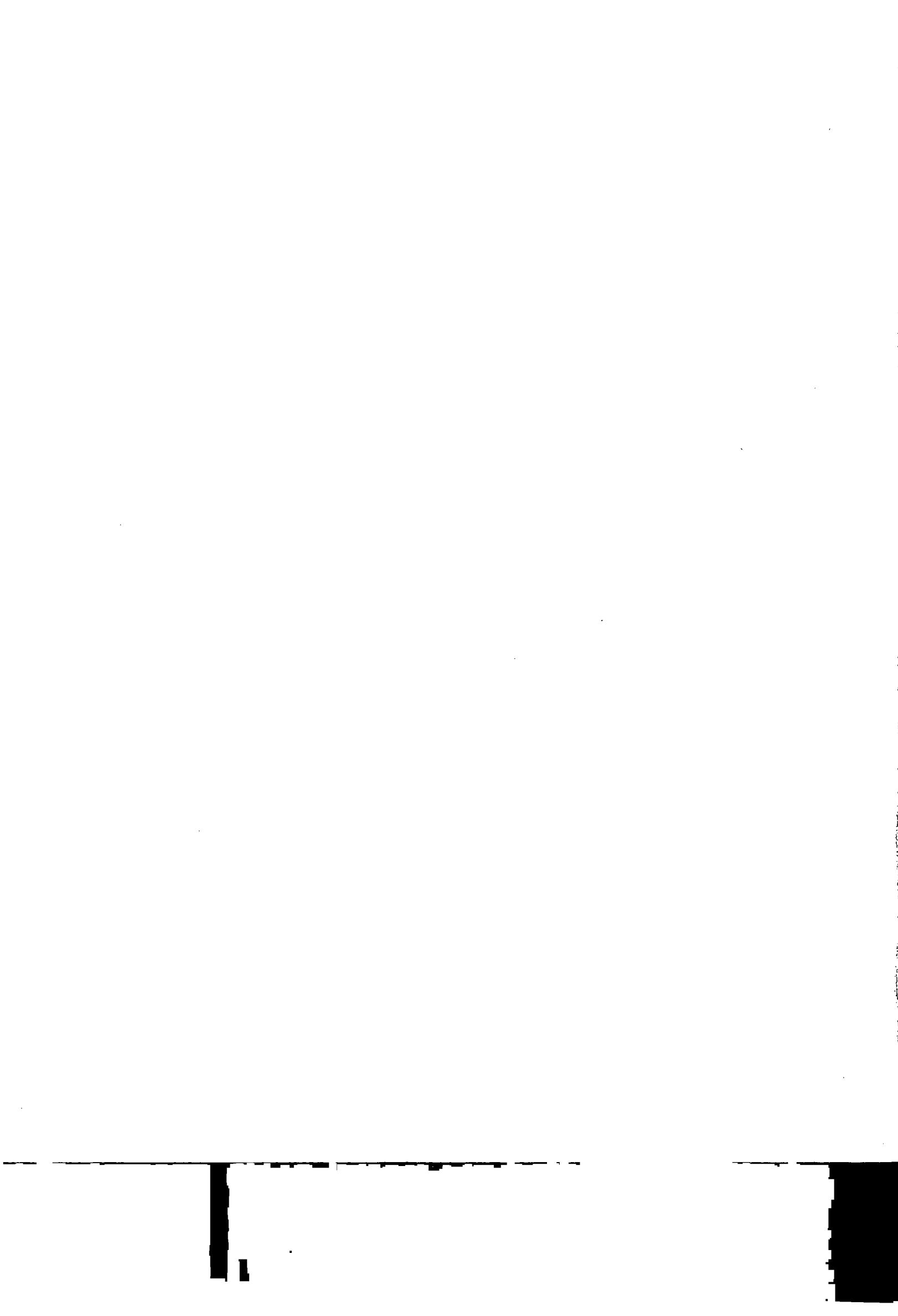
Sample Date:

9/23/2013

Parameters	Units	IDEM 2012 - Direct Contact	
		Residential	Industrial
Aroclor-1254 (PCB-1254)	mg/kg	-	0.017 U
Aroclor-1260 (PCB-1260)	mg/kg	-	0.017 U
General Chemistry			
Cyanide (total)	mg/kg	-	0.51 U
Percent solids, vol.	%	-	97.5

Notes

U - Not detected at the associated reporting limit



PREPARED BY:



**CONESTOGA-ROVERS
& ASSOCIATES**

200 W. Allegan Street, Suite 300
Plainwell, Michigan 49080
Telephone: (269) 685-5181 Fax: (269) 685-5223
www.CRAworld.com

SUBMITTAL

DATE: 10-17-13

SUBMITTAL NO.: 82098-62

PROJECT NO.: 82098

PROJECT NAME: Himco Landfill Cap

CLIENT: Bayer HealthCare LLC

ENGINEER: Conestoga-Rovers & Associates

6 West Belt Plaza

651 Colby Drive

Wayne, New Jersey 07470

Waterloo, ON N2V 1C2

SUPPLIER: C and E

SUBCONTRACTOR

County Road 9

Elkhart, Indiana

MANUFACTURER:

QTY	SPEC. NO. & TITLE	DWG. NO.	DESCRIPTION	LOCATION INSTALLED
1	Topsoil	N/A	Progress Submittals- Topsoil	Progress Submittal

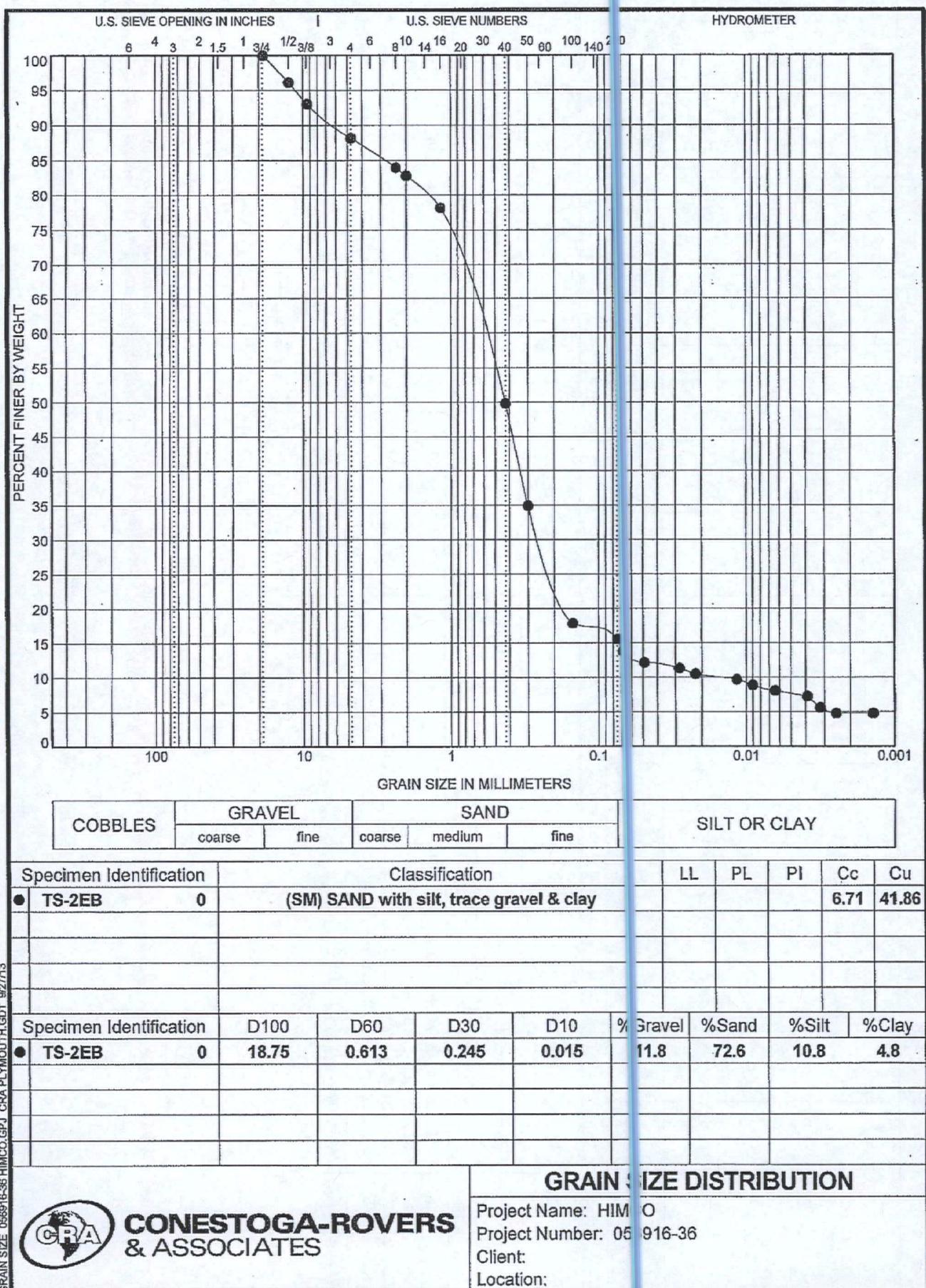
CONSTRUCTION MANAGER'S/ ENGINEER'S REVIEW AND APPROVAL:

COPY TO: Tom Lenz (Bayer)
Doug Gatrell (CRA)
Nicole Shanks (CRA)

COMPLETED BY: Don Osterhout
[Please Print]

SIGNED:





GRAIN SIZE 0569-16-36 HJMCO GPJ CRA PLYMOUTH GDT 9/27/13



CONESTOGA-ROVERS
& ASSOCIATES

Report No.
F13267-0081
Account No.
18720

A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808 • 260-483-4759 • Fax 260-483-5274
www.algreatlakes.com • lab@algreatlakes.com



QUALITY ANALYSES FOR INFORMED DECISIONS®

To: CONESTOGA ROVERS & ASSOC
6520 CORPORATE DR
INDIANAPOLIS, IN 46278

For: CRA SERVICES
269-685-5181

Attn: MICHAEL RICHARDSON

Date Received: 09/24/2013

Date Reported: 09/27/2013

SOIL TEST REPORT

Page: 1 of 1

Sample ID	Lab Number	Organic Matter	Phosphorus Bray P1 ppm	Phosphorus Bray P2 ppm	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	Sodium Na ppm	Soil pH pH Buffer	Cation exchange Capacity CEC mmol/Kg	Total Nitrogen N ppm	Nitrate Nitrogen NO3-N ppm	Nitrite Nitrogen NO2-N ppm	Percent Cation Saturation Perc. Cation Saturation	Ammonium Nitrogen NH4-N ppm	Bicarb P ppm	Comments
TS-EB1	23735	1.0	69 VH		60 L	105 VH	450 M		6.6	7.0	3.3	4.7	26.7	68.6			
TS-EB2	23736	0.6	74 VH		59 L	110 VH	450 M		6.5	7.0	3.3	4.6	27.6	67.8			
TS-EB3	23737	1.1	88 VH		73 M	120 H	650 M		7.4		4.4	4.2	22.5	73.2			
TS-EB4	23738	1.1	95 VH		71 M	130 H	750 M		7.5		5.0	3.6	21.6	74.8			
TS-EB5	23739	1.5	38 H		65 L	180 H	1500 H		7.6		9.2	1.8	16.4	81.8			
TS-EB6	23740	1.8	40 H		69 L	195 H	1600 H		7.4		9.8	1.8	16.6	81.6			
TS-EB7	23741	2.2	40 H		69 L	205 H	1800 H		7.6		10.9	1.6	15.7	82.7			
TS-EB8	23742	2.0	40 H		63 L	205 H	1750 H		7.5		10.6	1.5	16.1	82.4			

VL = VERY LOW

L = LOW

M = MEDIUM

H = HIGH

VH = VERY HIGH

Sample ID	Sulfur S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron Br ppm	Soluble Salts mmhos/cm	Nitrate Nitrogen NO3-N ppm	Ammonium Nitrogen NH4-N ppm	Bicarb P ppm	Comments
TS-EB1								7 L	1 VL		
TS-EB2								8 L	2 VL		
TS-EB3								7 L	13 M		
TS-EB4								6 L	7 L		
TS-EB5								31 H	2 VL		
TS-EB6								33 H	2 VL		
TS-EB7								36 H	2 VL		
TS-EB8								36 H	2 VL		

Report Number: F13267-0081
Account Number: 18720

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QUALITY ANALYSES FOR INFORMED DECISIONS

TO: CONESTOGA ROVERS & ASSOC
6520 CORPORATE DR
INDIANAPOLIS, IN 46278

RE: CRA SERVICES
269-685-5181

DATE RECEIVED: 09/24/2013
DATE REPORTED: 09/27/2013
PAGE: 1

ATTN: MICHAEL RICHARDSON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
23735	TS-EB1	Organic Matter (ASTM D2974)	1.2	%	ASTM D2974-07a
23736	TS-EB2	Organic Matter (ASTM D2974)	1.1	%	ASTM D2974-07a
23737	TS-EB3	Organic Matter (ASTM D2974)	1.5	%	ASTM D2974-07a
23738	TS-EB4	Organic Matter (ASTM D2974)	1.4	%	ASTM D2974-07a
23739	TS-EB5	Organic Matter (ASTM D2974)	2.1	%	ASTM D2974-07a
23740	TS-EB6	Organic Matter (ASTM D2974)	2.1	%	ASTM D2974-07a
23741	TS-EB7	Organic Matter (ASTM D2974)	2.4	%	ASTM D2974-07a
23742	TS-EB8	Organic Matter (ASTM D2974)	2.6	%	ASTM D2974-07a

SOILMISC

SOIL ANALYTICAL RESULTS SUMMARY
HIMCO DUMP
ELKHART, INDIANA

Page 1 of 4

Sample Location:

Sample ID:

Sample Date:

Topsail
SO-092313-EB-001
9/23/2013

Parameters	Units	IDEM 2012 - Direct Contact	
		Residential	Industrial
		a	b
Volatile Organic Compounds			
1,1,1-Trichloroethane	mg/kg	-	0.0071 U
1,1,2,2-Tetrachloroethane	mg/kg	-	0.0071 U
1,1,2-Trichloroethane	mg/kg	-	0.0071 U
1,1-Dichloroethane	mg/kg	-	0.0071 U
1,1-Dichloroethene	mg/kg	-	0.0071 U
1,2,4-Trichlorobenzene	mg/kg	-	0.0071 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	0.0071 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	0.0071 U
1,2-Dichlorobenzene	mg/kg	-	0.0071 U
1,2-Dichloroethane	mg/kg	-	0.0071 U
1,2-Dichloropropane	mg/kg	-	0.0071 U
1,3-Dichlorobenzene	mg/kg	-	0.0071 U
1,4-Dichlorobenzene	mg/kg	-	0.0071 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	0.014 U
2-Hexanone	mg/kg	-	0.014 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	0.014 U
Acetone	mg/kg	85000	100000
Benzene	mg/kg	15	54
Bromodichloromethane	mg/kg	3.8	14
Bromoform	mg/kg	870	2200
Bromomethane (Methyl bromide)	mg/kg	-	0.0071 U
Carbon disulfide	mg/kg	740	740
Carbon tetrachloride	mg/kg	8.5	30
Chlorobenzene	mg/kg	410	760
Chloroethane	mg/kg	-	0.0071 U
Chloroform (Trichloromethane)	mg/kg	-	0.0071 U
Chloromethane (Methyl chloride)	mg/kg	-	0.0071 U
cis-1,2-Dichloroethene	mg/kg	-	0.0071 U
cis-1,3-Dichloropropene	mg/kg	-	0.0071 U
Cyclohexane	mg/kg	120	120
Dibromochloromethane	mg/kg	9.5	33
Dichlorodifluoromethane (CFC-12)	mg/kg	-	0.0071 U
Ethylbenzene	mg/kg	76	270
Isopropyl benzene	mg/kg	-	0.0071 U
Methyl acetate	mg/kg	29000	29000
Methyl cyclohexane	mg/kg	-	0.0071 U
Methyl tert butyl ether (MTBE)	mg/kg	-	0.0071 U
Methylene chloride	mg/kg	150	530
Styrene	mg/kg	870	870
Tetrachloroethene	mg/kg	-	0.0071 U
Toluene	mg/kg	820	820
trans-1,2-Dichloroethene	mg/kg	-	0.0071 U
trans-1,3-Dichloropropene	mg/kg	-	0.0071 U
Trichloroethene	mg/kg	-	0.0071 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	0.0071 U
Trifluorotrichloroethane (Freon 113)	mg/kg	-	0.0071 U
Vinyl chloride	mg/kg	0.84	17
Xylenes (total)	mg/kg	-	0.0071 U
Semivolatile Organic Compounds			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	-	0.36 U
2,4,5-Trichlorophenol	mg/kg	-	0.36 U
2,4,6-Trichlorophenol	mg/kg	-	0.36 U
2,4-Dichlorophenol	mg/kg	-	0.36 U
2,4-Dimethylphenol	mg/kg	-	0.36 U
2,4-Dinitrophenol	mg/kg	-	0.89 U
2,4-Dinitrotoluene	mg/kg	-	0.36 U

SOIL ANALYTICAL RESULTS SUMMARY
HIMCO DUMP
ELKHART, INDIANA

Page 2 of 4

Sample Location:

Sample ID:

Sample Date:

Topsill
SO-092313-EB-001
9/23/2013

Parameters	Units	IDEM 2012 - Direct Contact	
		Residential	Industrial
2,6-Dinitrotoluene	mg/kg	-	0.36 U
2-Chloronaphthalene	mg/kg	-	0.36 U
2-Chlorophenol	mg/kg	-	0.36 U
2-Methylnaphthalene	mg/kg	-	0.36 U
2-Methylphenol	mg/kg	-	0.36 U
2-Nitroaniline	mg/kg	-	0.36 U
2-Nitrophenol	mg/kg	-	0.36 U
3,3'-Dichlorobenzidine	mg/kg	-	0.89 U
3-Nitroaniline	mg/kg	-	0.36 U
4,6-Dinitro-2-methylphenol	mg/kg	-	0.89 U
4-Bromophenyl phenyl ether	mg/kg	-	0.36 U
4-Chloro-3-methylphenol	mg/kg	-	0.36 U
4-Chloroaniline	mg/kg	-	0.36 U
4-Chlorophenyl phenyl ether	mg/kg	-	0.36 U
4-Methylphenol	mg/kg	-	0.72 U
4-Nitroaniline	mg/kg	-	0.36 U
4-Nitrophenol	mg/kg	-	0.89 U
Acenaphthene	mg/kg	4800	33000
Acenaphthylene	mg/kg	-	0.36 U
Acetophenone	mg/kg	2500	2500
Anthracene	mg/kg	24000	100000
Atrazine	mg/kg	29	75
Benzaldehyde	mg/kg	1200	1200
Benzo(a)anthracene	mg/kg	-	0.36 U
Benzo(a)pyrene	mg/kg	-	0.36 U
Benzo(b)fluoranthene	mg/kg	-	0.38
Benzo(g,h,i)perylene	mg/kg	-	0.36 U
Benzo(k)fluoranthene	mg/kg	-	0.36 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	0.36 U
bis(2-Chloroethoxy)methane	mg/kg	250	1800
bis(2-Chloroethyl)ether	mg/kg	2.9	10
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	0.36 U
Butyl benzylphthalate (BBP)	mg/kg	-	0.36 U
Caprolactam	mg/kg	43000	100000
Carbazole	mg/kg	-	0.36 U
Chrysene	mg/kg	210	2100
Dibenz(a,h)anthracene	mg/kg	-	0.36 U
Dibenzofuran	mg/kg	110	170
Diethyl phthalate	mg/kg	69000	100000
Dimethyl phthalate	mg/kg	-	0.36 U
Di-n-butylphthalate (DBP)	mg/kg	-	0.36 U
Di-n-octyl phthalate (DnOP)	mg/kg	-	0.36 U
Fluoranthene	mg/kg	3200	22000
Fluorene	mg/kg	3200	22000
Hexachlorobenzene	mg/kg	4.2	11
Hexachlorobutadiene	mg/kg	85	220
Hexachlorocyclopentadiene	mg/kg	520	3700
Hexachloroethane	mg/kg	60	430
Indeno(1,2,3-cd)pyrene	mg/kg	-	0.36 U
Isophorone	mg/kg	7100	18000
Naphthalene	mg/kg	50	180
Nitrobenzene	mg/kg	67	240
N-Nitrosodi-n-propylamine	mg/kg	-	0.36 U
N-Nitrosodiphenylamine	mg/kg	-	0.36 U
Pentachlorophenol	mg/kg	12	27
Phenanthrene	mg/kg	-	0.36 U
Phenol	mg/kg	25000	100000
Pyrene	mg/kg	2400	17000

SOIL ANALYTICAL RESULTS SUMMARY
HIMCO DUMP
ELKHART, INDIANA

Page 3 of 4

Sample Location:

Topsill

Sample ID:

SO-092313-EB-001

Sample Date:

9/23/2013

Parameters	Units	IDEM 2012 - Direct Contact		
		Residential	Industrial	
Metals				
Aluminum	mg/kg	100000	100000	6000
Antimony	mg/kg	-	-	0.51 U
Arsenic	mg/kg	-	-	3.9
Barium	mg/kg	21000	100000	44
Beryllium	mg/kg	-	-	0.20 U
Cadmium	mg/kg	-	-	0.10 U
Calcium	mg/kg	-	-	6900
Chromium	mg/kg	-	-	8.3
Cobalt	mg/kg	32	300	3.4
Copper	mg/kg	4300	41000	12
Iron	mg/kg	77000	100000	10000
Lead	mg/kg	-	-	23
Magnesium	mg/kg	-	-	2900
Manganese	mg/kg	-	-	320
Mercury	mg/kg	-	-	0.078 U
Nickel	mg/kg	-	-	7.6
Potassium	mg/kg	-	-	500
Selenium	mg/kg	550	5100	0.51 U
Silver	mg/kg	550	5100	0.25 U
Sodium	mg/kg	-	-	250 U
Thallium	mg/kg	-	-	2.5 U
Vanadium	mg/kg	-	-	18
Zinc	mg/kg	-	-	49
Herbicides				
2,4,5-T	mg/kg	-	-	0.011 U
2,4,5-TP (Silvex)	mg/kg	-	-	0.011 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/kg	-	-	0.044 U
Pesticides				
4,4'-DDD	mg/kg	-	-	0.0091 U
4,4'-DDE	mg/kg	-	-	0.0091 U
4,4'-DDT	mg/kg	-	-	0.0091 U
Aldrin	mg/kg	0.41	1	0.0091 U
alpha-BHC	mg/kg	-	-	0.0091 U
alpha-Chlordane	mg/kg	-	-	0.017
beta-BHC	mg/kg	-	-	0.0091 U
delta-BHC	mg/kg	-	-	0.0091 U
Dieldrin	mg/kg	0.42	1.1	0.0091 U
Endosulfan I	mg/kg	-	-	0.0091 U
Endosulfan II	mg/kg	-	-	0.0091 U
Endosulfan sulfate	mg/kg	-	-	0.0091 U
Endrin	mg/kg	25	180	0.0091 U
Endrin aldehyde	mg/kg	-	-	0.0091 U
Endrin ketone	mg/kg	-	-	0.0091 U
gamma-BHC (lindane)	mg/kg	-	-	0.0091 U
gamma-Chlordane	mg/kg	-	-	0.017 P
Heptachlor	mg/kg	1.5	3.8	0.0091 U
Heptachlor epoxide	mg/kg	0.74	1.9	0.0091 U
Methoxychlor	mg/kg	430	3100	0.036 U
Toxaphene	mg/kg	6.2	16	0.44 U
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	-	-	0.018 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	0.018 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	0.018 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	0.018 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	0.018 U

CRA 039611 (36)

SOIL ANALYTICAL RESULTS SUMMARY**HIMCO DUMP
ELKHART, INDIANA**

Page 4 of 4

Sample Location:**Topsill****Sample ID:****SO-092313-EB-001****Sample Date:****9/23/2013****IDEML 2012 - Direct Contact**

Parameters	Units	Residential	Industrial
Aroclor-1254 (PCB-1254)	mg/kg	-	0.018 U
Aroclor-1260 (PCB-1260)	mg/kg	-	0.018 U

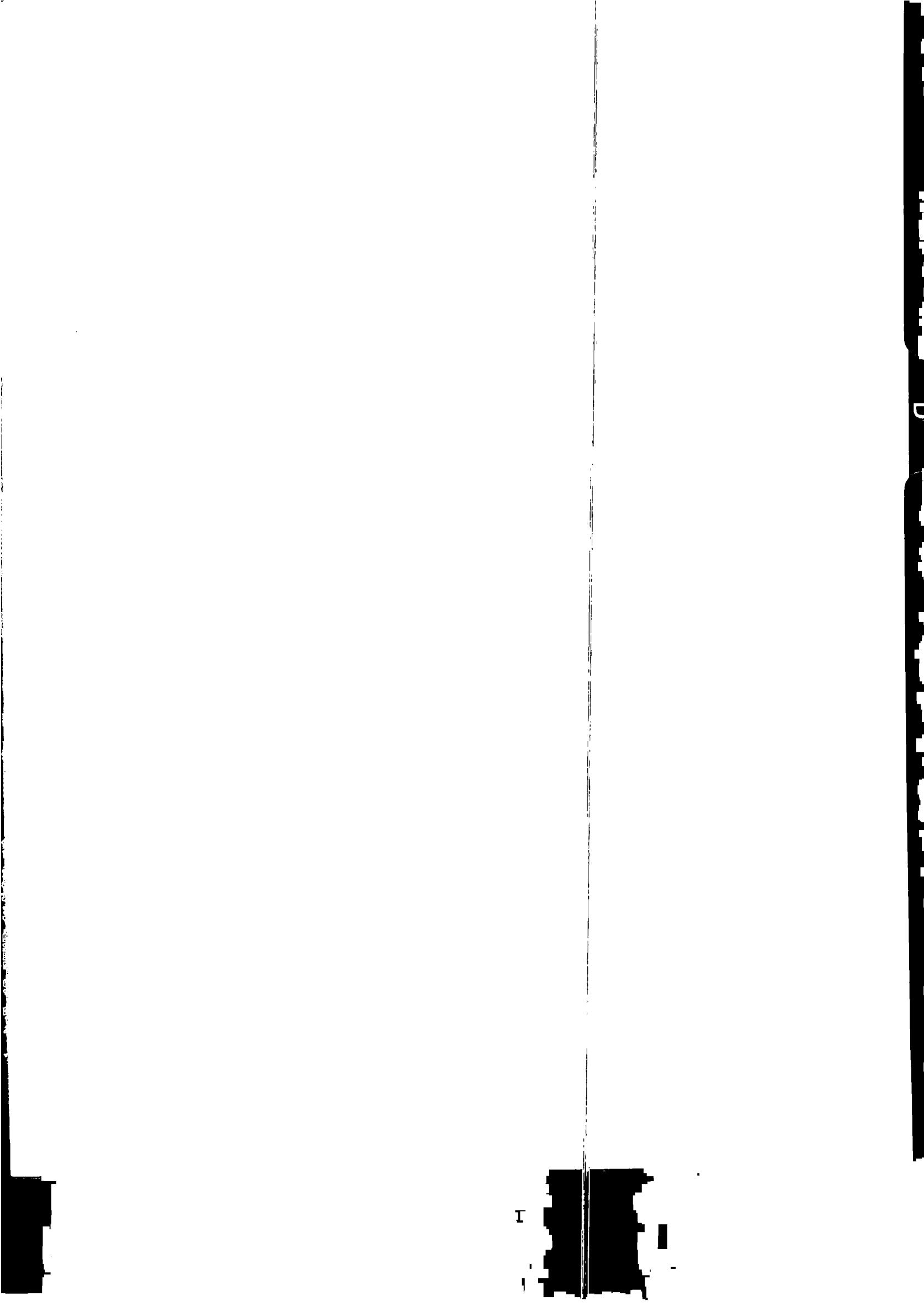
General Chemistry

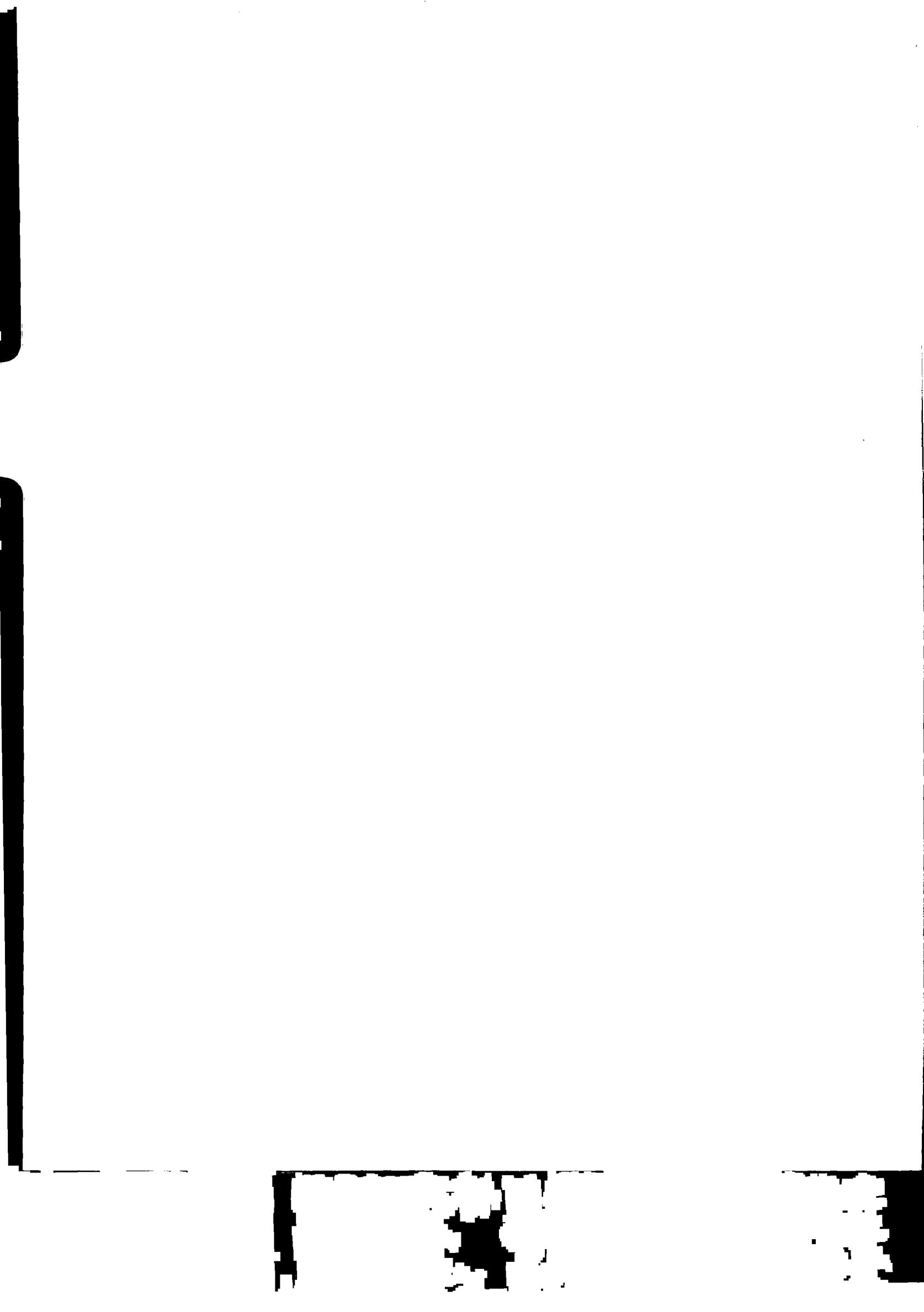
Cyanide (total)	mg/kg	-	0.55 U
Percent solids, vol.	%	-	91.6

Notes

U - Not detected at the associated reporting limit







Appendix D

Waste Manifest





**CONESTOGA-ROVERS
& ASSOCIATES**
Waste Services

14496 Sheldon Road, Suite 200
Plymouth, MI 48170
Telephone: (734) 433-5123 Fax: (734) 453-5201
www.CRAworld.com

MEMORANDUM

TO: Don Osterhout
FROM: Dave Canfield
C.C.: E-filing

R.F. No.: 082098
DATE: 12-02-13

RE: Non-Hazardous Soil Roll-off Disposal Event - 11/13/13

This summary is for: Waste Pick-up/ Disposal Price Quote/ Estimate

GENERATOR/ SITE INFORMATION

Name: Himco Site Trust Location: Intersection of County Road 10 &
John Weaver Parkway
Elkhart, Indiana 46514

DISPOSAL COST INFORMATION

Total Transportation & Disposal: \$3,015.58 Date Invoice Approved: 12/2/13

SHIPPING INFORMATION

Disposal Vendor: Republic Services Transportation Vendor: Republic Services
Manifest No: 2013-002 thru -004 Ship Date: 11/13/13
Manifest Received Date: 11/26/13

DISPOSAL FACILITY INFORMATION

Facility: County Line Landfill Location: Argos, IN Received Date: 11/13/13 & 11/14/13

WASTESTREAM INFORMATION

Wastestream Names: Vendor Approval No:
Non-Haz Contaminated Soil 4714 13 19443

WSG Tracking No: 082098-01-WSG-111313-001

ATTACHMENTS

Waste Manifest/Scale Tickets	<input checked="" type="checkbox"/>	Vendor Profile Form	<input checked="" type="checkbox"/>
Analytical Data	<input checked="" type="checkbox"/>	Agency Agreement	<input type="checkbox"/>
Purchase Order	<input checked="" type="checkbox"/>	Invoice	<input checked="" type="checkbox"/>

Other:



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
 If waste is NOT asbestos waste, complete Sections I, II and III.

13000
1877

I. GENERATOR (Generator completes Ia-s)

a. Generator's US EPA ID Number NA:	b. Manifest Document Number 2013-002	c. Page 1 of 1
d. Generator's Information: Himco Site Trust (Bayer HealthCare LLC) 430 S. Beiter Street Mishawaka, IN 46544 f. Phone: 574-257-3688 g. Contact: Tom Lenz h. County: Elkhart		e. Billing Information: Billed & Serviced by RSG Hauling - Elkhart, IN
Generator site location (if different): i. Site Location: Intersection of County Road 10 & John Weaver Parkway Elkhart, IN 46514		j. Phone No:
k. Waste Profile #	l. Exp. Date	m. Waste Shipping Name and Description
4714 13 19443	05/01/2014	Non-Haz Contaminated Soil
		n. Containers No. Type
		1 R/O
		o. Total Quantity
		12
		p. Unit Wt/Vol
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.		
X Thomas M. Lenz	X Thomas M. Lenz	11-13-2013
q. Generator Authorized Agent Name (Print)	r. Signature	s. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Republic Services - Allied Waste Elkhart, IN 57820 Charlotte Avenue Elkhart, IN 46517 Phone: 574-232-6000	b. Driver Name (Print)	c. Driver Name (Print)	d. Signature	e. Date
William H. Attili	William H. Attili			11/13/13

III. DESTINATION (Generator complete IIIe-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: #4714 - County Line Landfill (Republic Svc) 7922 N Old US Hwy 31 Argos, IN 46501 b. Phone: 574-224-6483	c. US EPA Number - N/A IDEM Approval Number - 25-03	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print)	f. Signature	g. Date
William H. Attili		11/13/2013

a. Generator's Name and Address: Bob Smith THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS)	b. Responsible Agency Name and Address: THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS)	
c. Special Handling Instructions and Additional Information: <input checked="" type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> 60% Friable <input type="checkbox"/> 0% Non-Friable		
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this container(s) are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		
d. Operator's Name and Title (Print)	e. Signature	f. Date
g. Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.		

White - Landfill Copy

Green - Generator Return Copy

Blue - Transporter Copy

Yellow - Generator Initial Copy

SITE

COUNTY LINE LANDFILL

CUSTOMER
7922 N OLD US HWY 31
ARGOS, IN 46501
574-223-9610

002149
BFI-ELKHART - 271
57820 CHARLOTTE AVE.
ELKHART, IN 46517

47141319443
11/11/2013 to 5/1/2014

QTY.	UNIT	DESCRIPTION	Scale In	Scale Out	DSST	WEIGHT	TAX	000 TOTAL
18.77	TN	SW-CONT SOIL	St. Joseph County, MI	100%	AIR	WEIGHT	37.460	

NET WEIGHT: 37.540
Tacking Qty: 0

Total
Change
Check #

NET AMOUNT

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understood the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE 

TENDERED
CHANGE
CHECKS



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
 If waste is NOT asbestos waste, complete Sections I, II and III

4505810
2110

I. GENERATOR (Generator completes Ia-s)

a. Generator's US EPA ID Number NA:	b. Manifest Document Number: 2013-003	c. Page 1 of 1
d. Generator's Information: Himco Site Trust (Bayer HealthCare LLC) 430 S. Beiger Street Mishawaka, IN 46544 f. Phone: 574-257-3688 g. Contact: Tom Lenz h. County: Elkhart	e. Billing Information: Billed & Serviced by RSG Hauling - Elkhart, IN	
Generator site location (if different): i. Site Location: Intersection of County Road 10 & John Weaver Parkway Elkhart, IN 46514	j. Phone No:	

k. Waste Profile #	l. Exp. Date	m. Waste Shipping Name and Description	n. Containers No.	o. Total Quantity	p. Unit Wt/Vol
4714 13.19443	05/01/2014	Non-Haz Contaminated Soil	1	R/O	15 70

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

X Thomas M. Lenz	X Thomas M. Lenz	11-13-2013
q. Generator Authorized Agent Name (Print)	r. Signature	s. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Republic Services - Allied Waste Elkhart, IN 57820 Charlotte Avenue Elkhart, IN 46517 Phone: 574-232-6000	b. Driver Name (Print)	c. Driver Signature	d. Date
William Heath	Walker Ward	11/13/13	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: #4714 - County Line Landfill (Republic Svc) 7922 N Old US Hwy 31 Argos, IN 46501 b. Phone: 574-224-6480	c. US EPA Number - N/A IDEM Approval Number - 25-03	d. Discrepancy Indication Space:
I hereby certify that the above printed material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print)	f. Signature	g. Date

a. Operator's Name and Address: Bob Smith	b. Phone:	c. Responsible Agency Name and Address:
THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS)		
THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS)		
d. Special Handling Instructions and Additional Information: e. <input checked="" type="checkbox"/> Flammable <input type="checkbox"/> Non-Flammable <input type="checkbox"/> Both <input type="checkbox"/> 0 % Recyclable <input type="checkbox"/> 0 % Non-Recyclable		
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, labeled and marked in proper condition for transport by highway according to applicable international, environmental, governmental regulations.		
f. Clearance & Name of Transporter (Print)		
g. Signature		
h. Date		
i. Comments & Other Information		
Comments refer to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation of both		

White - Landfill Copy

Green - Generator Return Copy

Blue - Transporter Copy

Yellow - Generator Initial Copy

SITE

COUNTY LINE LANDFILL

CUSTOMER
7922 N OLD US HWY 31
ARGOS, IN 46501
574-223-9610

002149

BFI-ELKHART - 271
57820 CHARLOTTE AVE.
ELKHART, IN 46517

47141319443
11/11/2013 to 5/1/2014

ON

SITE	TICKET #	CELL
WEIGHMASTER		
DATETIME IN	DATETIME OUT	
INVOICE	14 930590	
VEHICLE	KC00028	
REFERENCE		
November 14, 2013	Time In: 8:01 am	
BILL OF LADING	Time Out: 8:24 am	
BFI3015		

CTY.	UNIT	DESCRIPTION	Scale In	Scale Out	PSS	WEIGHMASTER	TAX AMT	TOTAL
21.0	TN	SW-CONT SOIL	St Joseph County, 100%		ARE WEIGHT	38.240		

NET WEIGHT: 42.200
Tacking Qty: 0

Total
Change
Check #

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understood the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE *[Signature]*



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
 If waste is NOT asbestos waste, complete Sections I, II and III.

QB030111/13/69

I. GENERATOR (Generator completes Ia-s)

a. Generator's US EPA ID Number NA	b. Manifest Document Number 2013-004	c. Page 1 of 1			
d. Generator's Information: Himco Site Trust (Bayer HealthCare LLC) 430 S Beiger Street Mishawaka, IN 46544 f. Phone: 574-257-3688 g. Contact: Tom Lenz h. County: Elkhart	e. Billing Information: Billed & Serviced by RSG Hauling - Elkhart, IN				
Generator site location (if different): i. Site Location: Intersection of County Road 10 & John Weaver Parkway Elkhart, IN 46514		j. Phone No:			
k. Waste Profile #	l. Exp. Date	m. Waste Shipping Name and Description	n. Containers No.	o. Total Quantity	p. Unit Wt/Vol
4714 13 19443	05/01/2014	Non-Haz Contaminated Soil	1	R/O 15	Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

X Thomas M. Lenz	X Thomas M. Lenz	11-13-2013
q. Generator Authorized Agent Name (Print)	r. Signature	s. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Republic Services - Allied Waste Elkhart, IN 57820 Charlotte Avenue Elkhart, IN 46517 Phone: 574-232-6000	b. Driver Name (Print)	c. Driver Signature	d. Date
William Heath	William Heath	11/13/13	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: #4714 - County Line Landfill (Republic Svc) 7922 N Old US Hwy 31 Argos, IN 46501 b. Phone: 574-224-6483	c. US EPA Number - N/A IDEM Approval Number - 25-03	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print)	f. Signature	g. Date

a. Operator's Name and Address Bob Smith	b. Phone	c. Responsible Agency Name and Address
THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS)		THIS SECTION IS NOT APPLICABLE (NOT ASBESTOS)
d. Special Handling Instructions and Additional Information: <input type="checkbox"/> Flammable <input type="checkbox"/> Non-Flammable <input type="checkbox"/> Both <input type="checkbox"/> 10-15 Pounds <input type="checkbox"/> G-S Non-Pesticide		
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this document are very accurately described above by proper shipping name and are classified, packed, labeled, marked and transported in proper condition for transport by highway according to applicable International and National Motor Carrier regulations.		
e. Operator's Name and Title (Sign)	f. Signature	g. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.		

White - Landfill Copy

Green - Generator Return Copy

Blue - Transporter Copy

Yellow - Generator Initial Copy

-978

COUNTY LINE LANDFILL

CUSTOMER 7922 N OLD US HWY 31
ARGOS, IN 46501
574-223-9610
002149
BFI-ELKHART - 271
57820 CHARLOTTE AVE.
ELKHART, IN 46517

47141319443
11/11/2013 to 5/1/2014

CITY	UNIT	DESCRIPTION	Scale In	Scale Out
16.69	TM: SW-CONT SOIL	St. Joseph County, MI 100%		

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understood the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE

Bell Howell

NET AMOUNT
TENDERED
CHANGE
CHECK#

**SPECIAL WASTE PROFILE**

Page 1 of 2

Requested Disposal Facility: 4714 County Line LF IN

Waste Profile #

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Sales Rep #:

Generator Name: Himco Site Trust			
Generator Site Address: Intersection of County Rd. 10 & John Weaver Parkway			
City: Elkhart	County: Elkhart	State: Indiana	Zip: 46514
State ID/Reg No:	State Approval/Waste Code: (if applicable)		NAICS #:
Generator Mailing Address (if different): <input checked="" type="checkbox"/> Bayer HealthCare LLC, 430 S. Beiger St.			
City: Mishawaka	County: St. Joseph	State: Indiana	Zip: 46544
Generator Contact Name: Tom Lenz		Email: torn.lenz@bayer.com	
Phone Number: (574) 257-3688	Ext:	Fax Number: (574) 256-3580	

II. Billing Information

Bill To: Conestoga-Rovers & Associates, Inc.	Contact Name: Robin Betke		
Billing Address: 200 W. Allegan St.	Email: rbetke@craworld.com		
City: Plainwell	State: MI	Zip: 49080	Phone: (269) 685-5181

III. Waste Stream Information

Name of Waste: Non-Hazardous Contaminated Soil
Process Generating Waste: Non-Hazardous soil containing C&D and common household waste excavated during installation of a passive ventilation trench.
Type of Waste: <input type="checkbox"/> INDUSTRIAL PROCESS WASTE <input checked="" type="checkbox"/> POLLUTION CONTROL WASTE
Physical State: <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment: <input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume: 40 Cubic Yards
Frequency: <input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING
Disposal Consideration: <input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

IV. Representative Sample Certification NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input checked="" type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date: 10/22/2013	
Sample ID Numbers: S-039611-102213-DC-001	

**SPECIAL WASTE PROFILE**

Page 2 of 2

V. Physical Characteristics of Waste**Characteristic Components**

1. Soil
2. Brick
3. Concrete
4. General Household Debris
- 5.

Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solid
Black	Mild (organic)	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?

Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?

Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?

Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?

Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?

Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?

Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?

Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?

Is this waste a reactive or heat generating waste?

Does the waste contain sulfur or sulfur by-products?

Is this waste generated at a Federal Superfund Clean Up Site?

Is this waste from a TSD facility, TSD like facility or consolidator?

Waste Profile #		
% by Weight (range)		
85-100		
0-5		
0-5		
0-5		
	pH:	Flash Point
	NA	NA °F

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Thomas M. Lenz, Senior HSE Specialist

Authorized Representative Name And Title (Type or Print)

Authorized Representative Signature

Bayer HealthCare LLC

Company Name

11/04/2013

Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-30495-1

Client Project/Site: 39611, HIMCO

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: chemdet Chemistry Data Mail Box

Nathan Pietras

Authorized for release by:

10/31/2013 2:51:14 PM

Nathan Pietras, Project Manager II

(330)966-8296

nathan.pietras@testamericainc.com

Designee for

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

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The
Expert

Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Job ID: 240-30495-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 39611, HIMCO

Report Number: 240-30495-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

TCLP VOLATILE ORGANIC COMPOUNDS (GCMS)

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP volatile organic compounds (GCMS) in accordance with EPA SW-846 Methods 1311/8260B. The samples were leached on 10/23/2013 and analyzed on 10/25/2013.

Method(s) 8260B: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: S-039611-102213-DC-001. Elevated reporting limits (RLs) are provided.

Sample S-039611-102213-DC-001 (240-30495-1)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP semivolatile organic compounds (GCMS) in accordance with

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Job ID: 240-30495-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

EPA SW-846 Methods 1311/8270C. The samples were leached on 10/23/2013, prepared on 10/24/2013 and analyzed on 10/25/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the SVOCs analysis.

All quality control parameters were within the acceptance limits.

TCLP CHLORINATED PESTICIDES

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP chlorinated pesticides in accordance with EPA SW-846 Methods 1311/8081A. The samples were leached on 10/23/2013, prepared on 10/24/2013 and analyzed on 10/28/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBs)

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 10/24/2013 and analyzed on 10/27/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Tetrachloro-m-xylene failed the surrogate recovery criteria high for MB 240-106885/12-A.

Aroclor-1016 and Aroclor-1260 exceeded the RPD limit for the MSD of sample S-039611-102213-DC-001MSD (240-30495-1) in batch 240-107283.

Method(s) 8082: The following sample(s) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-039611-102213-DC-001. Lot # S65830

No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

TCLP CHLORINATED HERBICIDES

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP chlorinated herbicides in accordance with EPA SW-846 Methods 1311/8151A. The samples were leached on 10/23/2013, prepared on 10/24/2013 and analyzed on 10/28/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

No difficulties were encountered during the herbicides analysis.

All quality control parameters were within the acceptance limits.

TCLP METALS (ICP)

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/6010B. The samples were leached on 10/23/2013, prepared on 10/24/2013 and analyzed on 10/25/2013.

Barium, Chromium and Selenium were detected in method blank LB 240-106838/1-D at levels that were above the method detection limit

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Job ID: 240-30495-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

Barium was detected in method blank MB 240-106937/2-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

TCLP MERCURY

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 10/23/2013, prepared on 10/24/2013 and analyzed on 10/25/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Sample S-039611-102213-DC-001 (240-30495-1) was analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 10/24/2013.

No difficulties were encountered during the % solids analysis.

All quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

#	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Canton

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-30495-1	S-039611-102213-DC-001	Solid	10/22/13 16:00	10/23/13 07:50



TestAmerica Canton

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10/31/2013

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Client Sample ID: S-039611-102213-DC-001

Lab Sample ID: 240-30495-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.0018	J	0.040	0.00080	mg/L	1	8270C	TCLP	
Arsenic	0.0071	J	0.50	0.0032	mg/L	1	6010B	TCLP	
Barium	0.16	J B	10	0.00067	mg/L	1	6010B	TCLP	
Chromium	0.0042	J B	0.50	0.0022	mg/L	1	6010B	TCLP	
Lead	0.0047	J	0.50	0.0019	mg/L	1	6010B	TCLP	
Selenium	0.0054	J B	0.25	0.0041	mg/L	1	6010B	TCLP	

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

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10/31/2013

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8081A	Organochlorine Pesticides (GC)	SW846	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
8151A	Herbicides (GC)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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TestAmerica Canton

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10/31/2013

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Client Sample ID: S-039611-102213-DC-001

Date Collected: 10/22/13 16:00

Date Received: 10/23/13 07:50

Lab Sample ID: 240-30495-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.050	0.019	mg/L			10/25/13 01:18	2
1,2-Dichloroethane	ND		0.050	0.022	mg/L			10/25/13 01:18	2
2-Butanone (MEK)	ND		0.50	0.057	mg/L			10/25/13 01:18	2
Benzene	ND		0.050	0.013	mg/L			10/25/13 01:18	2
Carbon tetrachloride	ND		0.050	0.013	mg/L			10/25/13 01:18	2
Chlorobenzene	ND		0.050	0.015	mg/L			10/25/13 01:18	2
Chloroform	ND		0.050	0.016	mg/L			10/25/13 01:18	2
Tetrachloroethene	ND		0.050	0.029	mg/L			10/25/13 01:18	2
Trichloroethene	ND		0.050	0.017	mg/L			10/25/13 01:18	2
Vinyl chloride	ND		0.050	0.022	mg/L			10/25/13 01:18	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Sur)	86		80 - 121					10/25/13 01:18	2
4-Bromofluorobenzene (Sur)	97		70 - 124					10/25/13 01:18	2
Toluene-d8 (Sur)	102		90 - 115					10/25/13 01:18	2
Dibromofluoromethane (Sur)	101		84 - 128					10/25/13 01:18	2

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Client Sample ID: S-039611-102213-DC-001

Lab Sample ID: 240-30495-1

Date Collected: 10/22/13 16:00

Matrix: Solid

Date Received: 10/23/13 07:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0040	0.00034	mg/L		10/24/13 10:34	10/25/13 13:56	1
2,4,5-Trichlorophenol	ND		0.020	0.00030	mg/L		10/24/13 10:34	10/25/13 13:56	1
2,4,6-Trichlorophenol	ND		0.020	0.00024	mg/L		10/24/13 10:34	10/25/13 13:56	1
2,4-Dinitrotoluene	ND		0.020	0.00025	mg/L		10/24/13 10:34	10/25/13 13:56	1
Hexachlorobenzene	ND		0.020	0.000085	mg/L		10/24/13 10:34	10/25/13 13:56	1
Hexachlorobutadiene	ND		0.020	0.00027	mg/L		10/24/13 10:34	10/25/13 13:56	1
Hexachloroethane	ND		0.020	0.00019	mg/L		10/24/13 10:34	10/25/13 13:56	1
3 & 4 Methylphenol	0.0018	J	0.040	0.00080	mg/L		10/24/13 10:34	10/25/13 13:56	1
2-Methylphenol	ND		0.0040	0.00017	mg/L		10/24/13 10:34	10/25/13 13:56	1
Nitrobenzene	ND		0.0040	0.000040	mg/L		10/24/13 10:34	10/25/13 13:56	1
Pentachlorophenol	ND		0.040	0.00027	mg/L		10/24/13 10:34	10/25/13 13:56	1
Pyridine	ND		0.020	0.00035	mg/L		10/24/13 10:34	10/25/13 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Sur)	51		30 - 110				10/24/13 10:34	10/25/13 13:56	1
2-Fluorophenol (Sur)	52		20 - 110				10/24/13 10:34	10/25/13 13:56	1
2,4,6-Tribromophenol (Sur)	49		23 - 110				10/24/13 10:34	10/25/13 13:56	1
Nitrobenzene-d5 (Sur)	58		28 - 110				10/24/13 10:34	10/25/13 13:56	1
Phenol-d5 (Sur)	49		21 - 110				10/24/13 10:34	10/25/13 13:56	1
Terphenyl-d14 (Sur)	58		48 - 110				10/24/13 10:34	10/25/13 13:56	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8081A - Organochlorine Pesticides (GC) - TCLP

Client Sample ID: S-039611-102213-DC-001						Lab Sample ID: 240-30495-1			
Date Collected: 10/22/13 16:00						Matrix: Solid			
Date Received: 10/23/13 07:50									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.000079	mg/L		10/24/13 10:40	10/28/13 11:29	1
Endrin	ND		0.00050	0.000026	mg/L		10/24/13 10:40	10/28/13 11:29	1
Heptachlor	ND		0.00050	0.000019	mg/L		10/24/13 10:40	10/28/13 11:29	1
Heptachlor epoxide	ND		0.00050	0.000017	mg/L		10/24/13 10:40	10/28/13 11:29	1
gamma-BHC (Lindane)	ND		0.00050	0.000015	mg/L		10/24/13 10:40	10/28/13 11:29	1
Methoxychlor	ND		0.0010	0.000077	mg/L		10/24/13 10:40	10/28/13 11:29	1
Toxaphene	ND		0.020	0.00077	mg/L		10/24/13 10:40	10/28/13 11:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		40 - 129				10/24/13 10:40	10/28/13 11:29	1
DCB Decachlorobiphenyl	63		40 - 152				10/24/13 10:40	10/28/13 11:29	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-039611-102213-DC-001							Lab Sample ID: 240-30495-1 Matrix: Solid			
							Percent Solids: 33.6			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Aroclor-1016	ND		99	63	ug/Kg	♂	10/24/13 07:14	10/27/13 21:29	1	
Aroclor-1221	ND		99	48	ug/Kg	♂	10/24/13 07:14	10/27/13 21:29	1	
Aroclor-1232	ND		99	42	ug/Kg	♂	10/24/13 07:14	10/27/13 21:29	1	
Aroclor-1242	ND		99	39	ug/Kg	♂	10/24/13 07:14	10/27/13 21:29	1	
Aroclor-1248	ND		99	51	ug/Kg	♂	10/24/13 07:14	10/27/13 21:29	1	
Aroclor-1254	ND		99	51	ug/Kg	♂	10/24/13 07:14	10/27/13 21:29	1	
Aroclor-1260	ND		99	51	ug/Kg	♂	10/24/13 07:14	10/27/13 21:29	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Tetrachloro-m-xylene	51		29 - 151				10/24/13 07:14	10/27/13 21:29	1	
DCB Decachlorobiphenyl	44		14 - 163				10/24/13 07:14	10/27/13 21:29	1	

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8151A - Herbicides (GC) - TCLP

Client Sample ID: S-039611-102213-DC-001

Date Collected: 10/22/13 16:00

Date Received: 10/23/13 07:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0020	0.00021	mg/L		10/24/13 10:42	10/28/13 22:21	1
Silvex (2,4,5-TP)	ND		0.00050	0.00010	mg/L		10/24/13 10:42	10/28/13 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	65		56 - 120				10/24/13 10:42	10/28/13 22:21	1

Lab Sample ID: 240-30495-1

Matrix: Solid

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TestAmerica Canton

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: S-039611-102213-DC-001

Lab Sample ID: 240-30495-1

Date Collected: 10/22/13 16:00

Matrix: Solid

Date Received: 10/23/13 07:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0071	J	0.50	0.0032	mg/L		10/24/13 09:56	10/25/13 17:21	1
Barium	0.16	J B	10	0.00067	mg/L		10/24/13 09:56	10/25/13 17:21	1
Cadmium	ND		0.10	0.00066	mg/L		10/24/13 09:56	10/25/13 17:21	1
Chromium	0.0042	J B	0.50	0.0022	mg/L		10/24/13 09:56	10/25/13 17:21	1
Lead	0.0047	J	0.50	0.0019	mg/L		10/24/13 09:56	10/25/13 17:21	1
Selenium	0.0054	J B	0.25	0.0041	mg/L		10/24/13 09:56	10/25/13 17:21	1
Silver	ND		0.50	0.0022	mg/L		10/24/13 09:56	10/25/13 17:21	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 7470A - Mercury (CVAA) - TCLP

Client Sample ID: S-039611-102213-DC-001

Date Collected: 10/22/13 16:00

Date Received: 10/23/13 07:50

Lab Sample ID: 240-30495-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.00012	mg/L		10/24/13 15:15	10/25/13 18:59	1



TestAmerica Canton

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QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

GC/MS VOA

Leach Batch: 106834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	1311	
LB 240-106834/1-A MB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 107028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	8260B	106834
LB 240-106834/1-A MB	Method Blank	TCLP	Solid	8260B	106834
LCS 240-107028/18	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 106838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	1311	

Prep Batch: 106953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	3510C	106838
LCS 240-106953/5-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 240-106953/4-A	Method Blank	Total/NA	Solid	3510C	

Analysis Batch: 107070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	8270C	106953
LCS 240-106953/5-A	Lab Control Sample	Total/NA	Solid	8270C	106953
MB 240-106953/4-A	Method Blank	Total/NA	Solid	8270C	106953

GC Semi VOA

Leach Batch: 106838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	1311	
240-30495-1 MS	S-039611-102213-DC-001	TCLP	Solid	1311	

Prep Batch: 106885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	Total/NA	Solid	3540C	
240-30495-1 MS	S-039611-102213-DC-001	Total/NA	Solid	3540C	
240-30495-1 MSD	S-039611-102213-DC-001	Total/NA	Solid	3540C	
LCS 240-106885/13-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-106885/12-A	Method Blank	Total/NA	Solid	3540C	

Prep Batch: 106957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	3510C	106838
240-30495-1 MS	S-039611-102213-DC-001	TCLP	Solid	3510C	106838
LCS 240-106957/4-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 240-106957/3-A	Method Blank	Total/NA	Solid	3510C	

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

GC Semi VOA (Continued)

Prep Batch: 106958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	8151A	106838
240-30495-1 MS	S-039611-102213-DC-001	TCLP	Solid	8151A	106838
LCS 240-106958/4-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 240-106958/3-A	Method Blank	Total/NA	Solid	8151A	

Analysis Batch: 107283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	Total/NA	Solid	8082	106885
240-30495-1 MS	S-039611-102213-DC-001	Total/NA	Solid	8082	106885
240-30495-1 MSD	S-039611-102213-DC-001	Total/NA	Solid	8082	106885
LCS 240-106885/13-A	Lab Control Sample	Total/NA	Solid	8082	106885
MB 240-106885/12-A	Method Blank	Total/NA	Solid	8082	106885

Analysis Batch: 107302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	8081A	106957
240-30495-1 MS	S-039611-102213-DC-001	TCLP	Solid	8081A	106957
LCS 240-106957/4-A	Lab Control Sample	Total/NA	Solid	8081A	106957
MB 240-106957/3-A	Method Blank	Total/NA	Solid	8081A	106957

Analysis Batch: 107392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	8151A	106958
240-30495-1 MS	S-039611-102213-DC-001	TCLP	Solid	8151A	106958
LCS 240-106958/4-A	Lab Control Sample	Total/NA	Solid	8151A	106958
MB 240-106958/3-A	Method Blank	Total/NA	Solid	8151A	106958

Metals

Leach Batch: 106838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	1311	
LB 240-106838/1-D LB	Method Blank	TCLP	Solid	1311	
LB 240-106838/1-E LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 106937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	3010A	106838
LB 240-106838/1-D LB	Method Blank	TCLP	Solid	3010A	106838
LCS 240-106937/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-106937/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 106938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	7470A	106838
LB 240-106838/1-E LB	Method Blank	TCLP	Solid	7470A	106838
LCS 240-106938/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-106938/2-A	Method Blank	Total/NA	Solid	7470A	

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Metals (Continued)

Analysis Batch: 107242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	6010B	106937
LB 240-106838/1-D LB	Method Blank	TCLP	Solid	6010B	106937
LCS 240-106937/3-A	Lab Control Sample	Total/NA	Solid	6010B	106937
MB 240-106937/2-A	Method Blank	Total/NA	Solid	6010B	106937

Analysis Batch: 107332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	TCLP	Solid	7470A	106938
LB 240-106838/1-E LB	Method Blank	TCLP	Solid	7470A	106938
LCS 240-106938/3-A	Lab Control Sample	Total/NA	Solid	7470A	106938
MB 240-106938/2-A	Method Blank	Total/NA	Solid	7470A	106938

General Chemistry

Analysis Batch: 106884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-30495-1	S-039611-102213-DC-001	Total/NA	Solid	Moisture	
240-30495-1 DU	S-039611-102213-DC-001	Total/NA	Solid	Moisture	

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 240-107028/18

Matrix: Solid

Analysis Batch: 107028

Analyte	Spike Added	LCS		Unit	%Rec.		
		Result	Qualifier		D	%Rec	Limits
1,1-Dichloroethene	1.00	0.959		mg/L		96	71 - 133
1,2-Dichloroethane	1.00	0.885		mg/L		88	81 - 114
2-Butanone (MEK)	2.00	1.75		mg/L		87	49 - 120
Benzene	1.00	1.00		mg/L		100	84 - 120
Carbon tetrachloride	1.00	1.02		mg/L		102	54 - 122
Chlorobenzene	1.00	1.02		mg/L		102	86 - 111
Chloroform	1.00	0.941		mg/L		94	87 - 123
Tetrachloroethene	1.00	1.06		mg/L		106	79 - 134
Trichloroethene	1.00	1.07		mg/L		107	78 - 130
Vinyl chloride	1.00	1.11		mg/L		111	56 - 111
Surrogate		LCS	LCS	Limits			
Surrogate		%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Sur)		86		80 - 121			
4-Bromofluorobenzene (Sur)		103		70 - 124			
Toluene-d8 (Sur)		109		90 - 115			
Dibromofluoromethane (Sur)		105		84 - 128			

Lab Sample ID: LB 240-106834/1-A MB

Matrix: Solid

Analysis Batch: 107028

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
1,1-Dichloroethene	ND		0.025	0.0095	mg/L			10/25/13 00:05	1	
1,2-Dichloroethane	ND		0.025	0.011	mg/L			10/25/13 00:05	1	
2-Butanone (MEK)	ND		0.25	0.029	mg/L			10/25/13 00:05	1	
Benzene	ND		0.025	0.0065	mg/L			10/25/13 00:05	1	
Carbon tetrachloride	ND		0.025	0.0065	mg/L			10/25/13 00:05	1	
Chlorobenzene	ND		0.025	0.0075	mg/L			10/25/13 00:05	1	
Chloroform	ND		0.025	0.0080	mg/L			10/25/13 00:05	1	
Tetrachloroethene	ND		0.025	0.015	mg/L			10/25/13 00:05	1	
Trichloroethene	ND		0.025	0.0085	mg/L			10/25/13 00:05	1	
Vinyl chloride	ND		0.025	0.011	mg/L			10/25/13 00:05	1	
Surrogate		MB	MB	Limits				Prepared	Analyzed	Dil Fac
Surrogate		%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Sur)		89		80 - 121					10/25/13 00:05	1
4-Bromofluorobenzene (Sur)		105		70 - 124					10/25/13 00:05	1
Toluene-d8 (Sur)		108		90 - 115					10/25/13 00:05	1
Dibromofluoromethane (Sur)		105		84 - 128					10/25/13 00:05	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-106953/4-A

Matrix: Solid

Analysis Batch: 107070

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		0.0040	0.00034	mg/L			10/24/13 10:34	10/25/13 12:30

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106953

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-106953/4-A

Matrix: Solid

Analysis Batch: 107070

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106953

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol			ND		0.020	0.00030	mg/L		10/24/13 10:34	10/25/13 12:30	1
2,4,6-Trichlorophenol			ND		0.020	0.00024	mg/L		10/24/13 10:34	10/25/13 12:30	1
2,4-Dinitrotoluene			ND		0.020	0.00025	mg/L		10/24/13 10:34	10/25/13 12:30	1
Hexachlorobenzene			ND		0.020	0.000085	mg/L		10/24/13 10:34	10/25/13 12:30	1
Hexachlorobutadiene			ND		0.020	0.00027	mg/L		10/24/13 10:34	10/25/13 12:30	1
Hexachloroethane			ND		0.020	0.00019	mg/L		10/24/13 10:34	10/25/13 12:30	1
3 & 4 Methylphenol			ND		0.040	0.00080	mg/L		10/24/13 10:34	10/25/13 12:30	1
2-Methylphenol			ND		0.0040	0.00017	mg/L		10/24/13 10:34	10/25/13 12:30	1
Nitrobenzene			ND		0.0040	0.000040	mg/L		10/24/13 10:34	10/25/13 12:30	1
Pentachlorophenol			ND		0.040	0.00027	mg/L		10/24/13 10:34	10/25/13 12:30	1
Pyridine			ND		0.020	0.00035	mg/L		10/24/13 10:34	10/25/13 12:30	1
MB MB		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	10	
Surrogate											
2-Fluorobiphenyl (Sur)		77			30 - 110			10/24/13 10:34	10/25/13 12:30	1	
2-Fluorophenol (Sur)		80			20 - 110			10/24/13 10:34	10/25/13 12:30	1	
2,4,6-Tribromophenol (Sur)		64			23 - 110			10/24/13 10:34	10/25/13 12:30	1	
Nitrobenzene-d5 (Sur)		82			28 - 110			10/24/13 10:34	10/25/13 12:30	1	
Phenol-d5 (Sur)		68			21 - 110			10/24/13 10:34	10/25/13 12:30	1	
Terphenyl-d14 (Sur)		93			48 - 110			10/24/13 10:34	10/25/13 12:30	1	

Lab Sample ID: LCS 240-106953/5-A

Matrix: Solid

Analysis Batch: 107070

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106953

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits	%Rec.
	Added									
1,4-Dichlorobenzene		0.0800		0.0638		mg/L		80	48 - 110	
2,4,5-Trichlorophenol		0.0800		0.0718		mg/L		90	51 - 110	
2,4,6-Trichlorophenol		0.0800		0.0699		mg/L		87	46 - 110	
2,4-Dinitrotoluene		0.0800		0.0699		mg/L		87	54 - 110	
Hexachlorobenzene		0.0800		0.0679		mg/L		85	50 - 110	
Hexachlorobutadiene		0.0800		0.0645		mg/L		81	34 - 110	
Hexachloroethane		0.0800		0.0625		mg/L		78	41 - 110	
3 & 4 Methylphenol		0.0800		0.0722		mg/L		90	48 - 110	
2-Methylphenol		0.0800		0.0722		mg/L		90	44 - 111	
Nitrobenzene		0.0800		0.0710		mg/L		89	40 - 110	
Pentachlorophenol		0.160		0.124		mg/L		77	12 - 110	
Pyridine		0.0800		0.0628		mg/L		79	30 - 110	
LCS LCS		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	10
Surrogate										
2-Fluorobiphenyl (Sur)		88			30 - 110					
2-Fluorophenol (Sur)		87			20 - 110					
2,4,6-Tribromophenol (Sur)		86			23 - 110					
Nitrobenzene-d5 (Sur)		94			28 - 110					
Phenol-d5 (Sur)		76			21 - 110					
Terphenyl-d14 (Sur)		105			48 - 110					

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-106957/3-A

Matrix: Solid

Analysis Batch: 107302

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND				0.0050	0.000079	mg/L		10/24/13 10:40	10/28/13 12:09	1
Endrin	ND				0.00050	0.000026	mg/L		10/24/13 10:40	10/28/13 12:09	1
Heptachlor	ND				0.00050	0.000019	mg/L		10/24/13 10:40	10/28/13 12:09	1
Heptachlor epoxide	ND				0.00050	0.000017	mg/L		10/24/13 10:40	10/28/13 12:09	1
gamma-BHC (Lindane)	ND				0.00050	0.000015	mg/L		10/24/13 10:40	10/28/13 12:09	1
Methoxychlor	ND				0.0010	0.000077	mg/L		10/24/13 10:40	10/28/13 12:09	1
Toxaphene	ND				0.020	0.00077	mg/L		10/24/13 10:40	10/28/13 12:09	1
Surrogate		MB	MB	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene		98				40 - 129			10/24/13 10:40	10/28/13 12:09	1
DCB Decachlorobiphenyl		106				40 - 152			10/24/13 10:40	10/28/13 12:09	1

Lab Sample ID: LCS 240-106957/4-A

Matrix: Solid

Analysis Batch: 107302

Analyte	Spikes	LCS	LCS	Added	Result	Qualifier	Unit	D	%Rec	Limits
Endrin				0.00200	0.00241	J	mg/L		121	73 - 146
Heptachlor				0.00200	0.00214	J	mg/L		107	60 - 140
Heptachlor epoxide				0.00200	0.00218	J	mg/L		109	73 - 158
gamma-BHC (Lindane)				0.00200	0.00202	J	mg/L		101	63 - 157
Methoxychlor				0.00400	0.00438	J	mg/L		109	49 - 160
Surrogate		LCS	LCS	%Recovery	Qualifier	Limits				
Tetrachloro-m-xylene		93				40 - 129				
DCB Decachlorobiphenyl		103				40 - 152				

Lab Sample ID: 240-30495-1 MS

Matrix: Solid

Analysis Batch: 107302

Analyte	Sample	Sample	Spike	MS	MS	Result	Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier						
Endrin	ND		0.00200	0.00183	J			mg/L		92	47 - 140
Heptachlor	ND		0.00200	0.00159	J			mg/L		79	44 - 129
Heptachlor epoxide	ND		0.00200	0.00170	J			mg/L		85	48 - 146
gamma-BHC (Lindane)	ND		0.00200	0.00165	J			mg/L		82	36 - 146
Methoxychlor	ND		0.00400	0.00357	J			mg/L		89	35 - 152
Surrogate		MS	MS	%Recovery	Qualifier	Limits					
Tetrachloro-m-xylene		70				40 - 129					
DCB Decachlorobiphenyl		70				40 - 152					

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-106885/12-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 107283							Prep Batch: 106885			
MB MB										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Aroclor-1016	ND		33	21	ug/Kg		10/24/13 07:14	10/27/13 20:48		1
Aroclor-1221	ND		33	16	ug/Kg		10/24/13 07:14	10/27/13 20:48		1
Aroclor-1232	ND		33	14	ug/Kg		10/24/13 07:14	10/27/13 20:48		1
Aroclor-1242	ND		33	13	ug/Kg		10/24/13 07:14	10/27/13 20:48		1
Aroclor-1248	ND		33	17	ug/Kg		10/24/13 07:14	10/27/13 20:48		1
Aroclor-1254	ND		33	17	ug/Kg		10/24/13 07:14	10/27/13 20:48		1
Aroclor-1260	ND		33	17	ug/Kg		10/24/13 07:14	10/27/13 20:48		1
MB MB										
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Tetrachloro-m-xylene	164	X	29 - 151				10/24/13 07:14	10/27/13 20:48		1
DCB Decachlorobiphenyl	82		14 - 163				10/24/13 07:14	10/27/13 20:48		1

Lab Sample ID: LCS 240-106885/13-A							Client Sample ID: Lab Control Sample			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 107283							Prep Batch: 106885			
Spike LCS LCS										
Analyte		Spike Added	Result	LCS Qualifier	Unit	D	%Rec		%Rec.	
Aroclor-1016		333	278	ug/Kg			84	62 - 120		
Aroclor-1260		333	294	ug/Kg			88	56 - 122		
Surrogate LCS LCS										
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene	106		29 - 151							
DCB Decachlorobiphenyl	95		14 - 163							

Lab Sample ID: 240-30495-1 MS							Client Sample ID: S-039611-102213-DC-001			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 107283							Prep Batch: 106885			
Sample Sample Spike MS MS										
Analyte	Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec		
Aroclor-1016	ND		1010	493		ug/Kg	♂	49	22 - 157	
Aroclor-1260	ND		1010	496		ug/Kg	♂	49	13 - 161	
Surrogate MS MS										
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene	52		29 - 151							
DCB Decachlorobiphenyl	53		14 - 163							

Lab Sample ID: 240-30495-1 MSD							Client Sample ID: S-039611-102213-DC-001			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 107283							Prep Batch: 106885			
Sample Sample Spike MSD MSD										
Analyte	Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec		
Aroclor-1016	ND		1000	311	F	ug/Kg	♂	31	22 - 157	45
Aroclor-1260	ND		1000	291	F	ug/Kg	♂	29	13 - 161	52
Surrogate MSD MSD										
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene	31		29 - 151							
DCB Decachlorobiphenyl	27		14 - 163							

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 240-106958/3-A							Client Sample ID: Method Blank				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 107392							Prep Batch: 106958				
Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND				0.0020	0.00021	mg/L		10/24/13 10:42	10/28/13 23:07	1
Silvex (2,4,5-TP)	ND				0.00050	0.00010	mg/L		10/24/13 10:42	10/28/13 23:07	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	85				56 - 120				10/24/13 10:42	10/28/13 23:07	1

Lab Sample ID: LCS 240-106958/4-A							Client Sample ID: Lab Control Sample			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 107392							Prep Batch: 106958			
Analyte			Spike		LCS	LCS	Unit	D	%Rec.	Limits
			Added		Result	Qualifier		mg/L		
2,4-D			0.0200		0.0160				80	50 - 120
Silvex (2,4,5-TP)			0.00500		0.00412			mg/L		82 45 - 129
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits					
2,4-Dichlorophenylacetic acid	85				56 - 120					

Lab Sample ID: 240-30495-1 MS							Client Sample ID: S-039611-102213-DC-001			
Matrix: Solid							Prep Type: TCLP			
Analysis Batch: 107392							Prep Batch: 106958			
Analyte	Sample	Sample	Spike		MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added		Result	Qualifier		mg/L		
2,4-D	ND		0.0200		0.0139				70	44 - 124
Silvex (2,4,5-TP)	ND		0.00500		0.00340			mg/L		68 35 - 135
Surrogate	MS	MS	%Recovery	Qualifier	Limits					
2,4-Dichlorophenylacetic acid	71				56 - 120					

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-106937/2-A							Client Sample ID: Method Blank				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 107242							Prep Batch: 106937				
Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic			ND		0.50	0.0032	mg/L		10/24/13 09:55	10/25/13 16:49	1
Barium			0.00200	J	10	0.00067	mg/L		10/24/13 09:55	10/25/13 16:49	1
Cadmium			ND		0.10	0.00066	mg/L		10/24/13 09:55	10/25/13 16:49	1
Chromium			ND		0.50	0.0022	mg/L		10/24/13 09:55	10/25/13 16:49	1
Lead			ND		0.50	0.0019	mg/L		10/24/13 09:55	10/25/13 16:49	1
Selenium			ND		0.25	0.0041	mg/L		10/24/13 09:55	10/25/13 16:49	1
Silver			ND		0.50	0.0022	mg/L		10/24/13 09:55	10/25/13 16:49	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-106937/3-A	Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 106937						
Matrix: Solid							
Analysis Batch: 107242							

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	2.00	2.16		mg/L		108	50 - 150
Barium	2.00	1.99	J	mg/L		100	50 - 150
Cadmium	0.0500	0.0505	J	mg/L		101	50 - 150
Chromium	0.200	0.210	J	mg/L		105	50 - 150
Lead	0.500	0.485	J	mg/L		97	50 - 150
Selenium	2.00	2.08		mg/L		104	50 - 150
Silver	0.0500	0.0533	J	mg/L		107	50 - 150

Lab Sample ID: LB 240-106838/1-D LB	Client Sample ID: Method Blank Prep Type: TCLP Prep Batch: 106937						
Matrix: Solid							
Analysis Batch: 107242							

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.0032	mg/L		10/24/13 09:55	10/25/13 16:45	1
Barium	0.00287	J	10	0.00067	mg/L		10/24/13 09:55	10/25/13 16:45	1
Cadmium	ND		0.10	0.00066	mg/L		10/24/13 09:55	10/25/13 16:45	1
Chromium	0.00300	J	0.50	0.0022	mg/L		10/24/13 09:55	10/25/13 16:45	1
Lead	ND		0.50	0.0019	mg/L		10/24/13 09:55	10/25/13 16:45	1
Selenium	0.00551	J	0.25	0.0041	mg/L		10/24/13 09:55	10/25/13 16:45	1
Silver	ND		0.50	0.0022	mg/L		10/24/13 09:55	10/25/13 16:45	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-106938/2-A	Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 106938						
Matrix: Solid							
Analysis Batch: 107332							

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.00012	mg/L		10/24/13 15:15	10/25/13 18:51	1

Lab Sample ID: LCS 240-106938/3-A	Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 106938						
Matrix: Solid							
Analysis Batch: 107332							

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00500	0.00460		mg/L		92	50 - 150

Lab Sample ID: LB 240-106838/1-E LB	Client Sample ID: Method Blank Prep Type: TCLP Prep Batch: 106938						
Matrix: Solid							
Analysis Batch: 107332							

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.00012	mg/L		10/24/13 15:15	10/25/13 18:49	1

TestAmerica Canton

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (80-121)	BFB (70-124)	TOL (90-115)	DBFM (84-128)
LCS 240-107028/18	Lab Control Sample	86	103	109	105

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (80-121)	BFB (70-124)	TOL (90-115)	DBFM (84-128)
240-30495-1	S-039611-102213-DC-001	86	97	102	101
LB 240-106834/1-A MB	Method Blank	89	105	108	105

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (30-110)	2FP (20-110)	TBP (23-110)	NBZ (28-110)	PHL (21-110)	TPH (48-110)
LCS 240-106953/5-A	Lab Control Sample	88	87	86	94	76	105
MB 240-106953/4-A	Method Blank	77	80	64	82	68	93

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (30-110)	2FP (20-110)	TBP (23-110)	NBZ (28-110)	PHL (21-110)	TPH (48-110)
240-30495-1	S-039611-102213-DC-001	51	52	49	58	49	58

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)

TestAmerica Canton

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.

Project/Site: 39611, HIMCO

TBP = 2,4,6-Tribromophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = Terphenyl-d14 (Surr)

TestAmerica Job ID: 240-30495-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (40-129)	TCX2 (40-129)	DCB1 (40-152)	DCB2 (40-152)
LCS 240-106957/4-A	Lab Control Sample	109	93	118	103
MB 240-106957/3-A	Method Blank	109	98	108	106

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (40-129)	TCX2 (40-129)	DCB1 (40-152)	DCB2 (40-152)
240-30495-1	S-039611-102213-DC-001	82	82	66	63
240-30495-1 MS	S-039611-102213-DC-001	89	70	76	70

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (29-151)	DCB2 (14-163)
240-30495-1	S-039611-102213-DC-001	51	44
240-30495-1 MS	S-039611-102213-DC-001	52	53
240-30495-1 MSD	S-039611-102213-DC-001	31	27
LCS 240-106885/13-A	Lab Control Sample	106	95
MB 240-106885/12-A	Method Blank	164 X	82

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1 (56-120)	DCPA2 (56-120)
LCS 240-106958/4-A	Lab Control Sample	67	85
MB 240-106958/3-A	Method Blank	63	85

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

TestAmerica Canton

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1 (56-120)	DCPA2 (56-120)
240-30495-1	S-039611-102213-DC-001	49 X	65
240-30495-1 MS	S-039611-102213-DC-001	55 X	71

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

TestAmerica Canton

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Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Client Sample ID: S-039611-102213-DC-001

Lab Sample ID: 240-30495-1

Date Collected: 10/22/13 16:00

Matrix: Solid

Date Received: 10/23/13 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			106834	10/23/13 14:55	JS1	TAL CAN
TCLP	Analysis	8260B		2	107028	10/25/13 01:18	TJL1	TAL CAN
TCLP	Leach	1311			106838	10/23/13 14:55	JS1	TAL CAN
TCLP	Prep	3510C			106953	10/24/13 10:34	KEC	TAL CAN
TCLP	Analysis	8270C		1	107070	10/25/13 13:56	TMH	TAL CAN
Total/NA	Prep	3540C			106885	10/24/13 07:14	MPM	TAL CAN
Total/NA	Analysis	8082		1	107283	10/27/13 21:29	HMB	TAL CAN
TCLP	Leach	1311			106838	10/23/13 14:55	JS1	TAL CAN
TCLP	Analysis	8081A		1	107302	10/28/13 11:29	CVD	TAL CAN
TCLP	Prep	3510C			106957	10/24/13 10:40	AKC	TAL CAN
TCLP	Prep	8151A			106958	10/24/13 10:42	AKC	TAL CAN
TCLP	Analysis	8151A		1	107392	10/28/13 22:21	DEB	TAL CAN
TCLP	Leach	1311			106838	10/23/13 14:55	JS1	TAL CAN
TCLP	Leach	1311			106838	10/23/13 14:55	JS1	TAL CAN
TCLP	Prep	3010A			106937	10/24/13 09:56	ADS	TAL CAN
TCLP	Analysis	6010B		1	107242	10/25/13 17:21	KLC	TAL CAN
TCLP	Leach	1311			106838	10/23/13 14:55	JS1	TAL CAN
TCLP	Prep	7470A			106938	10/24/13 15:15	ADS	TAL CAN
TCLP	Analysis	7470A		1	107332	10/25/13 18:59	AMM2	TAL CAN
Total/NA	Analysis	Moisture		1	106884	10/24/13 06:56	JAK	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.

Project/Site: 39611, HIMCO

TestAmerica Job ID: 240-30495-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-14
Georgia	State Program	4	N/A	06-30-14
Illinois	NELAP	5	200004	07-31-14 *
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-14
L-A-B	DoD ELAP		L2315	07-18-16
Nevada	State Program	9	OH-000482008A	07-31-14
New Jersey	NELAP	2	OH001	06-30-14
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-14 *
Texas	NELAP	6		08-31-14 *
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-14
Washington	State Program	10	C971	01-12-14
Wisconsin	State Program	5	999518190	08-31-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Canton